Navy_CLEAN_PFAS_FOIA_request_covers.indd

NAVFAC
Naval Facilities Engineering Command

# Groundwater Sample Results, Level 2 Laboratory Report, Level 4 Laboratory Report, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG 18-0580

*Naval Air Station Point Mugu*
*Point Mugu, California*

July 2019

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

# CTO-4164 Naval Base Ventura County, California
# Project No 100110125-01
# PFAS by DoD QSM 5.1 Table B-15

*AQ, GW*

*Batch 18-0580*

*Package DP-18-0285*

Submitted to:
CH2M
1100 NE Circle Blvd Suite 300
Corvallis, OR 97330 USA

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

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# CTO-4164 Naval Base Ventura County, California
# Project No 100110125-01
# PFAS by DoD QSM 5.1 Table B-15

*AQ, GW*

*Batch 18-0580*

*Package DP-18-0285*

Submitted to:
CH2M
1100 NE Circle Blvd Suite 300
Corvallis, OR 97330 USA

NELAP Accreditation Number: E87856 (Florida Department of Health)
DoD-ELAP Accreditation Number: 91667

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

Analyst Approval: Lauren Griffith 2018.10.22 13:54:00 -04'00'

QC Chemist Approval: fitche@battelle.org 2018.10.23 15:58:44 -04'00'

Project Manager Approval: Digitally signed by Jonathan Thorn Date: 2018.10.23 16:23:03 -04'00'

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# CTO-4164 Naval Base Ventura County, California
# Project No 100110125-01
# PFAS by DoD QSM 5.1 Table B-15

*SD*

*Batch 18-0580*

*Package DP-18-0285*


| | | |
|---|---|---|
| 1 | ***Miscellaneous Documentation***<br>Case Narrative, Laboratory Accreditations. | 1 |
| 2 | ***Chain of Custody Records***<br>Sample Receipt Records | 11 |
| 3 | ***Tables***<br>Analytical Data Tables, Qualifier Definitions. | 27 |


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**Signature Page**

Battelle 2018 (1 of 2)
Signature Page

| Name (Printed) | Signature | Initials | Date |
|---|---|---|---|
| Jonathan Thorn | | JRT | 4/4/2018 |
| Robert Lizotte, Jr. | | BL | 4.4 2018 |
| FRANCO PALA | | | 4-4-2018 |
| Carla Devine | | CRD | 4/4/18 |
| Denise Schumitz | | DMS | 4/4/18 |
| Candice Penn McCoy | | CPM | 4/4/2018 |
| Rich Rostucci | | RR | 4/4/2018 |
| Michael Mears | | | 4/4/2018 |
| Christie Usher | | cu | 4/4/18 |
| Kevin McInerney | | | 4/4/18 |
| Stephanie Schultz | | SAS | 4/4/18 |
| Jordan Tower | | JCT | 4/4/18 |
| KRISTEN NICHOLS | | KN | 4/4/18 |
| Clinton H Brown | | CB | 4/4/18 |
| Matt Schumitz | | MS | 4-4-18 |
| Sam Guimaraes | | SG | 4-4-18 |
| Lauren Griffith | | LMG | 4.4.18 |

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**Signature Page**

Battelle 2018 (2 of 2)
Signature Page

| Name (Printed) | Signature | Initials | Date |
|---|---|---|---|
| KAVITHA DASU | | KD | 04/04/18 |
| Kayla Lamarre | | KAL | 04/04/18 |
| Weidong Li | | W.L | 04/04/18 |
| Tracy W Stenner | | TWS | 04/04/18 |
| Ellyn M Fitch | | EMF | 12-April-2018 |
| Gail DeRuzzo | | GD | 4/18/18 |
| Zachary Willenberg | | ZJW | 4/20/18 |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |

Sample Summary

Client: CH2M
SDG: 18-0580
Project/Site: Naval Base Ventura County
CTO: 4164

| Lab Sample ID | Client Sample ID | Matrix | Collection Date | Receipt Date |
|---|---|---|---|---|
| CR884PB-FS | Procedural Blank | WATER | 9/28/2018 | 9/28/2018 |
| CR885LCS-FS | Laboratory Control Sample | WATER | 9/28/2018 | 9/28/2018 |
| J8285-FS | VC-CS94-DW01-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8286-FS | VC-CS94-DW01P-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8287-FS | VC-CS94-DW02-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8288-FS | VC-CS94-DW03-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8289-FS | VC-CS94-DW04-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8290-FS | VC-CS94-DW05-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8308-FS | VC-SO-FB04-092118 | AQ | 9/21/2018 | 9/25/2018 |
| J8309-FS | VC-SO-EB04-092118 | AQ | 9/21/2018 | 9/25/2018 |
| J8319-FS | VC-PM323-324-DW01-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8320-FS | VC-PM323-324-DW01P-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8321-FS | VC-PM323-324-DW02-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8322-FS | VC-PM323-324-DW03-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8323-FS | VC-AQ-FB03-092018 | AQ | 9/20/2018 | 9/25/2018 |
| J8324-FS | VC-AQ-EB03-092018 | AQ | 9/20/2018 | 9/25/2018 |
| J8325MS-FS | VC-PM323-324-DW02-0918-MS | SB | 9/20/2018 | 9/25/2018 |
| J8326MSD-FS | VC-PM323-324-DW02-0918-MSD | SB | 9/20/2018 | 9/25/2018 |
| J8330-FS | VC-PM323-DW02-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8331-FS | VC-PM323-DW02P-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8337-FS | VC-PM324-DW02-0918 | GW | 9/20/2018 | 9/25/2018 |

# Miscellaneous Documentation

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# QA/QC Summary
# Batch 18-0580

| | |
|---|---|
| Project: | CTO-4164 Naval Base Ventura County, California |
| Parameters: | PFAS |
| Laboratory: | Battelle, Norwell, MA |
| Matrix: | GW and AQ |
| Data Set: | DP-18-0285 |
| Analytical SOP: | 5-369 |
| Method Reference: | PFAS to QSM 5.1 Table B-15 |

| Sample Custody | | |
|---|---|---|
| Collection Date | Receipt Date | Temp (°C) |
| 9/20 and 21/2018 | 9/25/2018 | 0.9 and 1.1 |
| Corrective Actions | Equipment blank and field blank samples differed from COC to sample containers. Client provided updated client ID information via email that was included with the sample custody records. | |
| Sample Storage | The water samples were stored refrigerated until extraction. | |
| Related samples | NA | |

| | METHOD SUMMARIES |
|---|---|
| Sample Preparation | Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% $NH_3$ in methanol. Extracts were concentrated to dryness under nitrogen with a water bath set between 35 °C and 45 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis. |
| Prep comments | All samples were pre-screened prior to initial extraction. Based on the concentrations detected in the pre-screening results and a discussion with the CH2M Project Chemist, the following samples used a reduced volume for extraction to avoid contamination of the laboratory and the instrument:<br>J8286-FS (VC-CS94-DW01P-0918)<br>J8319-FS (VC-PM323-324-DW01-0918)<br>J8320-FS (VC-PM323-324-DW01P-0918)<br>J8321-FS (VC-PM323-324-DW02-0918)<br>J8322-FS (VC-PM323-324-DW03-0918)<br>J8330-FS (VC-PM323-DW02-0918)<br>J8331-FS (VC-PM323-DW02P-0918)<br>J8337-FS (VC-PM324-DW02-0918) |
| 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. |
| Analysis Comments | Samples analyzed on Sciex 5500 LC-MS/MS. |

# QA/QC Summary
# Batch 18-0580

| | |
|---|---|
| | The ion ratio for PFNA in sample J8322-FS (VC-PM323-324-DW03-0918) was above the 50% RPD criteria.<br><br>When detected, PFHxS and PFOS contain both linear and branched isomers.<br><br>In cases were native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution. |

| Holding Times | Extraction Date(s) | Analysis Date(s) |
|---|---|---|
| | 9/28/2018 | 10/5, 6, 8, 10, 17, 19, and 20/2018 |

| | |
|---|---|
| Procedural Blank (PB) | A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination. |
| ≤ ½ the LOQ Samples >10x PB | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Laboratory Control Spike (LCS) | A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. |
| Laboratory derived control limits for recovery | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Matrix Spike and Matrix Spike Duplicate (MS/MSD) | A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. |
| Laboratory derived control limits for recovery and <30% RPD | 11 exceedances noted for recovery and 2 for RPD. |
| | In all cases, the concentrations of PFAS in the background sample exceeded the amount fortified into the MS and MSD samples, all PFAS compounds detected below the concentration fortified passed both criteria. |

| | |
|---|---|
| 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 | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| 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 several instances where 13C2-PFOA and 13C4-PFOS would fail IS area criteria. These failures are due to the amount of native PFOA and PFOS found in the samples interfering with the internal standards in the non-diluted extracts. In these cases, the extracted internal standards that would use these two internal standards are reported from a dilution to mitigate the interferences from the high concentrations in the non-diluted samples. No data is reported from extracts where the IS areas would have failed criteria. |

# QA/QC Summary
# Batch 18-0580

| | |
|---|---|
| Initial Calibration (ICAL) | The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadradic curve fitting. |
| +/- 30% of true value, $R^2 \geq 0.99$ | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Independent Calibration Check (ICC) | The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL. |
| +/- 30% of true value | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Continuing Calibration Verification (CCV) | Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid. |
| +/- 30% of true value | No exceedances noted. |
| | The CCV KB75, analyzed at 12:30:32 PM on 10/06/2018, exhibited high recoveries for PFHxS and PFOS, however, no results were reported from this bracket of samples. |

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

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project Number: 100110125-01
Preparation Batch: 18-0580
Data Set: DP-18-0285
Test Code: Master_369

| 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 | 11 | For all 11 exceedences, the background sample concentration of native analytes was much higher than the amount spiked into the MS and MSD. Analytes that did not have high concentrations in the backround sample had acceptable recoveries. LMG 10/19/18 |
| Matrix Spike / Matrix Spike Duplicate Precision | 2 | There were two exceedences for MS/MSD precision. Both instances were for analytes whose concentration in the background sample was much higher than the amount spiked into the MS and MSD. LMG 10/19/18 |
| Extracted Internal Standard Analytes (Surrogates) | 0 | None |
| Instrument Calibration | 0 | None |
| Instrument Blank | 0 | None |
| Independent Calibration Check | 0 | None |
| Continuing Calibration Verification | 0 | None |

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# BATTELLE - NORWELL OPERATIONS
## MISCELLANEOUS DOCUMENTATION FORM

| | | | |
|---|---|---|---|
| **Project Title:** | CTO-4164 Naval Base Ventura County, | **Data Set Number:** | DP-18-0285 |
| **Project Number:** | 100110125-01 | **Prep Batch Number:** | 18-0580 |
| **Entered By:** | Lauren Griffith | **Entered On:** | 10/15/2018 |
| **Test Code (Matrix Type):** | Master_369(L) | | |

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
LMG 10/19/18

The L6 of the calibration was utilized on the IS Area report for methods 18-0580_SIS and 18-0580D_SIS rather than the L5.
LMG 10/19/18

KB79 was not used in method 18-0580_BASE for NMeFOSAA and NetFOSAA. There is no impact on the data once this point is removed.
LMG 10/22/18

The ion ratio for PFNA in sample J8322-FS (VC-PM323-324-DW03-0918) was above the 50% RPD criteria.
LMG 10/22/18

PFOS appears to exhibit a retention time shift because it is a branched analyte and the retention time is defined by whichever branched peak has the largest area. The entire branched peak is picked in all cases.
LMG 10/19/18

In cases were native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution.
LMG 10/19/18

There are 28 instances of extracted internal standards (surrogates) not reported from the non-diluted extract. This is due to the higher levels of native PFOA and PFOS found in the samples interfering with the 13C2-PFOA and 13C4-PFOS internal standards used to quantify the surrogates, causing the internal standard areas to be outside of criteria. In these cases, the surrogates are reported from dilutions, however, the native compounds are reported from the non-diluted extracts as the interferences are with the internal standards and not the surrogates used to quantify the native compounds.
LMG 10/19/18

CCV KB75, analyzed at 12:30:32 PM on 10/06/2018, exhibited high recoveries for PFHxS and PFOS. These analytes were not reported from the sample bracketed by this CCV(J8322), so the exceedence does not apply.
LMG 10/19/18

**Task Leader Approval:**

**SupervisorApproval:**

**PM Approval:**

Digitally signed by Jonathan Thorn
Date: 2018.10.22 16:08:44 -04'00'

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01
Preparation Batch: 18-0580
Data Set: DP-18-0285

| | | CR884PB-FS (Procedural Blank) | CR885LCS-FS (Laboratory Control Sample) | J8325MS-FS (VC-PM323-324-DW02-0918-MS) | J8326MSD-FS (VC-PM323-324-DW02-0918-MSD | J8285-FS (VC-CS94-DW01-0918) | J8286-FS (VC-CS94-DW01P-0918) | J8287-FS (VC-CS94-DW02-0918) | J8288-FS (VC-CS94-DW03-0918) |
|---|---|---|---|---|---|---|---|---|---|
| PFHxA | 307-24-4 | - | L | L | L | L | L | L | L |
| PFHpA | 375-85-9 | - | L | L | L | L | L | L | L |
| PFOA | 335-67-1 | - | L | L | L | L | L | L | L |
| PFNA | 375-95-1 | - | L | L | L | - | L | - | - |
| PFDA | 335-76-2 | - | L | L | L | - | - | - | - |
| PFUnA | 2058-94-8 | - | L | L | L | - | - | - | - |
| PFDoA | 307-55-1 | - | L | L | L | - | - | - | - |
| PFTrDA | 72629-94-8 | - | L | L | L | - | - | - | - |
| PFTeDA | 376-06-7 | - | L | L | L | - | - | - | - |
| NMeFOSAA | 2355-31-9 | - | L | L | L | - | - | - | - |
| NEtFOSAA | 2991-50-6 | - | L | L | L | - | - | - | - |
| PFBS | 375-73-5 | - | 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 |
| PFOS | 1763-23-1 | - | L/Br | L/Br | L/Br | L/Br | L/Br | L/Br | L/Br |

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

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01
Preparation Batcl
Data Set: DP-18-

| | J8289-FS (VC-CS94-DW04-0918) | J8290-FS (VC-CS94-DW05-0918) | J8308-FS (VC-SO-FB04-092118) | J8309-FS (VC-SO-EB04-092118) | J8319-FS (VC-PM323-324-DW01-0918) | J8320-FS (VC-PM323-324-DW01P-0918) | J8321-FS (VC-PM323-324-DW02-0918) | J8322-FS (VC-PM323-324-DW03-0918) |
|---|---|---|---|---|---|---|---|---|
| PFHxA | L | L | - | - | L | L | L | L |
| PFHpA | L | L | - | - | L | L | L | L |
| PFOA | L | L | - | - | L | L | L | L |
| PFNA | - | - | - | - | L | L | - | L |
| PFDA | - | - | - | - | - | - | - | - |
| PFUnA | - | - | - | - | - | - | - | - |
| PFDoA | - | - | - | - | - | - | - | - |
| PFTrDA | - | - | - | - | - | - | - | - |
| PFTeDA | - | - | - | - | - | - | - | - |
| NMeFOSAA | - | - | - | - | - | - | - | - |
| NEtFOSAA | - | - | - | - | - | - | - | - |
| PFBS | L | L | - | - | L | L | L | L |
| PFHxS | L/Br | L/Br | - | - | L/Br | L/Br | L/Br | L/Br |
| PFOS | L/Br | L/Br | - | - | L/Br | L/Br | L/Br | L/Br |

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

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01
Preparation Batcl
Data Set: DP-18-

| | J8323-FS (VC-AQ-FB03-092018) | J8324-FS (VC-AQ-EB03-092018) | J8330-FS (VC-PM323-DW02-0918) | J8331-FS (VC-PM323-DW02P-0918) | J8337-FS (VC-PM324-DW02-0918) |
|---|---|---|---|---|---|
| PFHxA | - | - | L | L | L |
| PFHpA | - | - | L | L | L |
| PFOA | - | - | L | L | L |
| PFNA | - | - | - | - | L |
| PFDA | - | - | - | - | - |
| PFUnA | - | - | - | - | - |
| PFDoA | - | - | - | - | - |
| PFTrDA | - | - | - | - | - |
| PFTeDA | - | - | - | - | - |
| NMeFOSAA | - | - | - | - | - |
| NEtFOSAA | - | - | - | - | - |
| PFBS | - | - | L | L | L |
| PFHxS | - | - | L/Br | L/Br | L/Br |
| PFOS | - | L/Br | L/Br | L/Br | L/Br |

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

## 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 |
| Commonwealth of Pennsylvania Department of Environmental Protection | 68-05687 |
| State of Washington Department of Ecology | C1050 |
| State of California | 3045 |
| Commonwealth of Massachusetts | E87856 |

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

# Custody Records

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**ShpNo** SHP-180925-02

**Battelle Project No:** 0110125-01

# Sample Receipt Form

**Approved:** ☑ **Authorized** ☐

**Project Number:** 695803 **Client:** CH2M

**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, September 25, 2018 1:00 PM

**No. of Shipping Containers:** 2

## *SHIPMENT*

**Method of Delivery:** Commercial Carrier **Tracking Number:** Fed Ex

**COC Forms:** ☑ **Shipped with samples** ☐ **No Forms**

## *Cooler(s)/Box(es)*

| Cntr | Type | Tracking No. | Seal | Seal | Container | Therm. | Temp C | Smps |
|---|---|---|---|---|---|---|---|---|
| 1 of 2 | Cooler | 7829 0673 4525 | Custody Seals | Intact | Intact | Therm_1 | 0.9 | 25 |
| 2 of 2 | Cooler | 7829 0673 4536 | Custody Seals | Intact | Intact | Therm_1 | 1.1 | 28 |

## *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):** 1.1 Temperature Blank used ☑ Yes ☐ No
*(Note: If temperature upon receipt differs from required conditions, see sample log comment field)*

**Samples Acidified:** ☐ Yes ☐ No ☑ Unknown

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

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

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

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

**Storage Location:** Custody: Refrigerator - R0119 (NA) **BDO IDs Assigned:** J8285 - J8337

**Samples logged in by:** Schumitz, Matt **Date/Time:** 09/25/2018 1:00 PM

**Approved By:** Fitch, Ellyn **Approved On:** 10/1/2018 12:08:00 PM

**Authorized By:** **Authorized On:**

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**ShpNo:** SHP-180925-02

**Battelle Project No:** 0110125-01

## Report Corrective Actions

**Corrective Action No:** 1 **of** 1

Authorized ☐ Approved: ☐

**COC Client:** CH2M
**COC Project:** NBVC Basewide SI
**COC Date:** 9/25/2018 2:11:0

| | Description of Problem: | Explanation: |
|---|---|---|
| Client Id | Jars and C-O-C do not have matching Ids | It appears as though the blanks were mixed up when labeling them with the field ID.<br>COC<br>FDT-SO-FB04-092118 (J8308)<br>FDT-SO-EB04-092118 (J8309)<br>FDT-AQ-FB03-092018 (J8323)<br>FDT-AQ-EB03-092018 (J8324)<br>Labels<br>FDT-AQ-FB04-092118 (J8308)<br>FDT-SO-EB04-092118 (J8309)<br>FDT-SO-FB03-092018 (J8323)<br>FDT-SO-EB03-092018 (J8324) |

**Documentation of project manager notification**

**Sample Custodian** Schumitz, Matt **Date:** 9/25/2018 4:21:00 PM

**Laboratory Manager:** Thorn, Jonathan **Date:** 10/1/2018 11:57:00 A

**Project Manager:** Thorn, Jonathan **Date:** 10/1/2018 11:57:00 A

**Documentation of client notification (should be completed by project manager within 24 hrs):**

**On** 25-Sep-18 **I contacted** Hill, Tiffany **at** CH2M

**Results of communication with client (Describe any corrective action directed by the client):**

Updated sample IDs sent from client, included with original custody records.

**Date this form was received back to the custodian:** _____

**Reference Number:** _____

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**ShpNo** SHP-180925-02

**Battelle Project No:** 0110125-01

## Sample Receipt Form Details

**Approved:** ☐ **Authorized** ☐

**Project Number:** 695803 **Client:** CH2M

**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, September 25, 2018 1:00 PM

**No. of Shipping Containers:** 2

| BDO Id: | Client Sample ID: | Collection Date: | Login Date: | Ctrs: | Matrix: | Temp: | pH: | TRC: | VOC: | Stored In: | Loc: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J8285 | VC-CS94-DW01-0918 | 09/21/18 10:54 | 09/25/18 14:16 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8286 | VC-CS94-DW01P-0918 | 09/21/18 10:58 | 09/25/18 14:16 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8287 | VC-CS94-DW02-0918 | 09/21/18 11:50 | 09/25/18 14:17 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8288 | VC-CS94-DW03-0918 | 09/21/18 11:08 | 09/25/18 14:17 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8289 | VC-CS94-DW04-0918 | 09/21/18 12:14 | 09/25/18 14:17 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8290 | VC-CS94-DW05-0918 | 09/21/18 12:23 | 09/25/18 14:18 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8291 | VC-CS94-SS01-000H | 09/21/18 10:30 | 09/25/18 14:18 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8292 | VC-CS94-SB01-0102 | 09/21/18 10:33 | 09/25/18 14:19 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8293 | VC-CS94-SB01-0506 | 09/21/18 10:37 | 09/25/18 14:20 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8294 | VC-CS94-SS02-000H | 09/21/18 11:24 | 09/25/18 14:20 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8295 | VC-CS94-SB02-0102 | 09/21/18 11:25 | 09/25/18 14:20 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8296 | VC-CS94-SB02-0506 | 09/21/18 11:33 | 09/25/18 14:21 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8297 | VC-CS94-SS03-000H | 09/21/18 10:37 | 09/25/18 14:21 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8298 | VC-CS94-SB03-0102 | 09/21/18 10:38 | 09/25/18 14:21 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8299 | VC-CS94-SB03-0506 | 09/21/18 10:41 | 09/25/18 14:22 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8300 | VC-CS94-SS04-000H | 09/21/18 11:57 | 09/25/18 14:22 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8301 | VC-CS94-SB04-0102 | 09/21/18 11:58 | 09/25/18 14:22 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8302 | VC-CS94-SB04-0506 | 09/21/18 12:04 | 09/25/18 14:23 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8303 | VC-CS94-SS05-000H | 09/21/18 12:04 | 09/25/18 14:24 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8304 | VC-CS94-SB05-0102 | 09/21/18 12:05 | 09/25/18 14:24 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8305 | VC-CS94-SB05-0506 | 09/21/18 12:10 | 09/25/18 14:24 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8306 | VC-CS94-SS04-000H-MS | 09/21/18 11:57 | 09/25/18 14:25 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8307 | VC-CS94-SS04-000H-MSD | 09/21/18 11:57 | 09/25/18 14:25 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8308 | VC-SO-FB04-092118 | 09/21/18 14:20 | 09/25/18 14:25 | 2 | AQ | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8309 | VC-SO-EB04-092118 | 09/21/18 14:20 | 09/25/18 14:26 | 2 | AQ | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8310 | VC-PM323-324-SS01-000H | 09/20/18 13:52 | 09/25/18 14:27 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8311 | VC-PM323-324-SB01-0102 | 09/20/18 13:55 | 09/25/18 14:28 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8312 | VC-PM323-324-SB01-0506 | 09/20/18 14:10 | 09/25/18 14:28 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |

BATTELLE
It can be done

**ShpNo** SHP-180925-02

**Battelle Project No:** 0110125-01

## Sample Receipt Form Details

**Approved:** ☐ **Authorized** ☐

**Project Number:** 695803 **Client:** CH2M

**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, September 25, 2018 1:00 PM

**No. of Shipping Containers:** 2

| BDO Id: | Client Sample ID: | Collection Date: | Login Date: | Ctrs: | Matrix: | Temp: | pH: | TRC: | VOC: | Stored In: | Loc: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J8313 | VC-PM323-324-SS02-000H | 09/20/18 11:00 | 09/25/18 14:28 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8314 | VC-PM323-324-SB02-0102 | 09/20/18 11:05 | 09/25/18 14:29 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8315 | VC-PM323-324-SB02-0506 | 09/20/18 11:15 | 09/25/18 14:29 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8316 | VC-PM323-324-SS03-000H | 09/20/18 10:15 | 09/25/18 14:29 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8317 | VC-PM323-324-SB03-0102 | 09/20/18 10:17 | 09/25/18 14:30 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8318 | VC-PM323-324-SB03-0506 | 09/20/18 10:22 | 09/25/18 14:30 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8319 | VC-PM323-324-DW01-0918 | 09/20/18 14:38 | 09/25/18 14:31 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8320 | VC-PM323-324-DW01P-0918 | 09/20/18 14:45 | 09/25/18 14:32 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8321 | VC-PM323-324-DW02-0918 | 09/20/18 11:41 | 09/25/18 14:32 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8322 | VC-PM323-324-DW03-0918 | 09/20/18 10:35 | 09/25/18 14:32 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8323 | VC-AQ-FB03-092018 | 09/20/18 8:00 | 09/25/18 14:33 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8324 | VC-AQ-EB03-092018 | 09/20/18 8:00 | 09/25/18 14:33 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8325 | VC-PM323-324-DW02-0918-MS | 09/20/18 12:58 | 09/25/18 14:33 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8326 | VC-PM323-324-DW02-0918-MSD | 09/20/18 13:30 | 09/25/18 14:34 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8327 | VC-PM323-SS02-000H | 09/20/18 14:43 | 09/25/18 14:38 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8328 | VC-PM323-SB02-0102 | 09/20/18 14:44 | 09/25/18 14:38 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8329 | VC-PM323-SB02-0506 | 09/20/18 14:48 | 09/25/18 14:38 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8330 | VC-PM323-DW02-0918 | 09/20/18 15:13 | 09/25/18 14:39 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8331 | VC-PM323-DW02P-0918 | 09/20/18 16:02 | 09/25/18 14:39 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8332 | VC-PM324-SS02-000H | 09/20/18 13:40 | 09/25/18 14:40 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8333 | VC-PM324-SB02-0102 | 09/20/18 13:45 | 09/25/18 14:40 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8334 | VC-PM324-SB02-0506 | 09/20/18 13:51 | 09/25/18 14:41 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8335 | VC-PM324-SB02-0506-MS | 09/20/18 13:51 | 09/25/18 14:41 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8336 | VC-PM324-SB02-0506-MSD | 09/20/18 13:51 | 09/25/18 14:41 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8337 | VC-PM324-DW02-0918 | 09/20/18 14:00 | 09/25/18 14:42 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |

**Total Samples:** 53

MEMORANDUM CH2MHILL

# Corrections to COCs

TO: Jonathan Thorn, Battelle

COPIES: File
Laboratory Package SDG: SHP 180925-02

FROM: Tiffany Hill
Project Chemist

DATE: September 25, 2018

This memo is to document corrections made to entries on the Chains of Custody (COC) and Logins for NB Ventura County, CTO-4164.

The corrections include changes to the sample IDs on the COC and Login:

| Sample ID on Login | Correct Sample ID | Date Collected | Time Collected | SDG |
|---|---|---|---|---|
| FDT-AQ-FB03-092018 | VC-AQ-FB03-092018 | 9/20/18 | 8:00 | SHP-180925-02 |
| FDT-AQ-EB03-092018 | VC-AQ-EB03-092018 | 9/20/18 | 8:00 | SHP-180925-02 |
| FDT-SO-FB04-092118 | VC-SO-FB04-092118 | 9/21/18 | 14:20 | SHP-180925-02 |
| FDT-SO-EB04-092118 | VC-SO-EB04-092118 | 9/21/18 | 14:20 | SHP-180925-02 |

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM CS94 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): Victoria Kilbert<br>Phone: 724-977-3625 j-cobs.com<br>Email: vlk8004c@gmail.com<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 1 of 9 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| VC-CS94-DW01-0918 J8285 | 9/21/18 | 1054 | AQ | GW | 2 | X |
| VC-CS94-DW01P-0918 J8286 | 9/21/18 | 1058 | AQ | GW | 2 | X |
| VC-CS94-DW02-0918 J8287 | 9/21/18 | 1150 | AQ | GW | 2 | X |
| VC-CS94-DW03-0918 J8288 | 9/21/18 | 1108 | AQ | GW | 2 | X |
| VC-CS94-DW04-0918 J8289 | 9/21/18 | 1214 | AQ | GW | 2 | X |
| VC-CS94-DW05-0918 J8290 | 9/21/18 | 1223 | AQ | GW | 2 | X |
| ~~FDT-AQ-FB~~ | | | ~~Grab~~ | ~~AQ~~ | | X |
| ~~FDT-AQ-EB~~ | | | ~~Grab~~ | ~~AQ~~ | | X |

VK

| *Receipt Temperature:(°C)* | *Samples Intact: Yes - No* | *Samples on Ice: Yes - No* | *Receipt Comments:* |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 09/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

2

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM CS94 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI | Turnaround Time (TAT) Requested: Normal X, Priority ☐, RUSH ☐ | Analysis: PFAS by Method 537 Mod | Page# 2 of 9 |
| Project No.: 69583 | Time Zone: PST | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| VC-CS94-SS01-000H J8291 | 9/21/18 | 1030 | Grab | SS | 1 | X |
| VC-CS94-SB01-0102 92 | 9/21/18 | 1033 | Grab | SB | 1 | X |
| VC-CS94-SB01-0506 93 | 9/21/18 | 1037 | Grab | SB | 1 | X |
| VC-CS94-SS02-000H 94 | 9/21/18 | 1124 | Grab | SS | 1 | X |
| VC-CS94-SB02-0102 95 | 9/21/18 | 1125 | Grab | SB | 1 | X |
| VC-CS94-SB02-0506 96 | 9/21/18 | 1133 | Grab | SB | 1 | X |
| VC-CS94-SS03-000H 97 | 9/21/18 | 1037 | Grab | SS | 1 | X |
| VC-CS94-SB03-0102 98 | 9/21/18 | 1038 | Grab | SB | 1 | X |
| VC-CS94-SB03-0506 99 | 9/21/18 | 1041 | Grab | SB | 1 | X |
| VC-CS94-SS04-000H J8300 | 9/21/18 | 1157 | Grab | SS | 1 | X |
| VC-CS94-SB04-0102 J8301 | 9/21/18 | 1158 | Grab | SB | 1 | X |
| VC-CS94-SB04-0506 J8302 | 9/21/18 | 1204 | Grab | SB | 1 | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | NA | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE**
It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM CS94 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone:<br>Email: victoria.kilbert@jacobs.com<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 645803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 3 of 9 |

| | Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|---|
| J8305 | VC-CS94-SS05-000H | 9/21/18 | 1204 | Grab | SS | 1 | X |
| 04 | VC-CS94-SB05-0102 | 9/21/18 | 1205 | Grab | SB | 1 | X |
| 05 | VC-CS94-SB05-0506 | 9/21/18 | 1210 | Grab | SB | 1 | X |
| 06 | VC-CS94-SS04-000H-MS | 9/21/18 | 1157 | Grab | SS | 1 | X |
| 07 | VC-CS94-SS04-000H-MSD | 9/21/18 | 1157 | Grab | SS | 1 | X |
| 08 | FDT-SO-FB04-092118 | 9/21/18 | 1420 | Grab | AQ | 2 | X |
| J8309 | FDT-SO-EB04-092118 | 9/21/18 | 1420 | Grab | AQ | 2 | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|
| | | | |

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323-324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: victoria.kilbert@jacobs.com<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: DST | Analysis: PFAS by Method 537 Mod | Page# 4 of 9 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| VC-PM323-324-SS01-000H J8310 | 9/20/18 | 1352 | Grab | SS | 1 | X |
| VC-PM323-324-SB01-0102 11 | 9/20/18 | 1355 | Grab | SB | 1 | X |
| VC-PM323-324-SB01-0506 12 | 9/20/18 | 1410 | Grab | SB | 1 | X |
| VC-PM323-324-SS02-000H 13 | 9/20/18 | 1100 | Grab | SS | 1 | X |
| VC-PM323-324-SB02-0102 14 | 9/20/18 | 1105 | Grab | SB | 1 | X |
| VC-PM323-324-SB02-0506 15 | 9/20/18 | 1115 | Grab | SB | 1 | X |
| VC-PM323-324-SS03-000H 16 | 9/20/18 | 1015 | Grab | SS | 1 | X |
| VC-PM323-324-SB03-0102 17 | 9/20/18 | 1017 | Grab | SB | 1 | X |
| VC-PM323-324-SB03-0506 J8318 | 9/20/18 | 1022 | Grab | SB | 1 | X |
| ~~VC-PM323-324-SD01-000H~~ | | | ~~Grab~~ | ~~SD~~ | | X |
| ~~VC-PM323-324-SD01-0102~~ | | | ~~Grab~~ | ~~SD~~ | | X |
| ~~VC-PM323-324-S-MS~~ | | | ~~Grab~~ | | | X |

| *Receipt Temperature:(°C)* | *Samples Intact: Yes - No* | *Samples on Ice: Yes - No* | *Receipt Comments:* |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0733 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323-324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3625<br>Email:<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: EST | Analysis: PFAS by Method 537 Mod | Page# 5 of 9 |

| | Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | | | |
|---|---|---|---|---|---|---|---|---|---|
| J8319 | VC-PM323-324-DW01-0918 | 9/20/18 | 1438 | Grab | GW | 2 | | X | |
| 20 | VC-PM323-324-DW01P-0918 | 9/20/18 | 1445 | Grab | GW | 2 | | X | |
| 21 | VC-PM323-324-DW02-0918 (VD) | 9/20/18 | 1141 | Grab | GW | 2 | | X | |
| 22 | VC-PM323-324-DW03-0918 | 9/20/18 | 1035 | Grab | GW | 2 | | X | |
| 23 | FDT-AQ-FB03-092018 | 9/21/18 | 0806 | Grab | AQ | 2 | | X | |
| 24 | FDT-AQ-EB03-092018 | 9/21/18 | 0800 | Grab | AQ | 2 | | X | |
| 25 | VC-PM323-324-DW02-0918-MS | 9/20/18 | 1258 | G-b | AQ | 2 | | X | MS |
| J8326 | VC-PM323-324-DW02-0918-MSD | 9/20/18 | 1330 | G-b | AQ | 2 | | X | MSD |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

BATTELLE
It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Turnaround Time (TAT) Requested:<br>Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 6 of 7 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | Analysis: PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| ~~VC-PM323-SS01-000H~~ | | | Grab | SS | | X |
| ~~VC-PM323-SB01-~~ | | | Grab | SB | | X |
| ~~VC-PM323-SB01-~~ | | | Grab | SB | | X |
| VC-PM323-SS02-000H J8327 | 9/20/18 | 1443 | Grab | SS | 1 | X |
| VC-PM323-SB02-0102 J8328 | 9/20/18 | 1444 | Grab | SB | 1 | X |
| VC-PM323-SB02-0506 J8329 | 9/20/18 | 1448 | Grab | SB | 1 | X |
| ~~VC-PM323-SS03-000H~~ | | | Grab | SS | | X |
| ~~VC-PM323-SB03-~~ | | | Grab | SB | | X |
| ~~VC-PM323-SB03-~~ | | | Grab | SB | | X |
| ~~VC-PM323-S- -MS~~ | | | Grab | | | X |
| ~~VC-PM323-S- -SD~~ | | | Grab | | | X |
| ~~FDT-SO-FB -~~ | | | Grab | AQ | | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Tetra Tech | 09/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE**
It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: N/A | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Turnaround Time (TAT) Requested:<br>Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 7 of 9 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| ~~VC-PM323-DW01-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| VC-PM323-DW02-0918 J8330 | 9/20/18 | 1513 | Grab | GW | 2 | X |
| VC-PM323-DW02P-0918 J8331 | 9/20/18 | 1602 | Grab | GW | 2 | X |
| ~~VC-PM323-DW03-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| ~~FDT-AQ-EB~~ | | | ~~Grab~~ | ~~AQ~~ | | X |
| FDT-AQ-EB - | | | Grab | AQ | | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|
| | | | |

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1700 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI | Turnaround Time (TAT) Requested:<br>Normal ☒<br>Priority ☐<br>RUSH ☐ | Analysis: PFAS by Method 537 Mod | Page# 8 of 9 |
| Project No.: 695803 | Time Zone: PST | | |

| | Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|---|
| | ~~VC-PM324-SS01-000H~~ | | | ~~Grab~~ | ~~SS~~ | | X |
| | ~~VC-PM324-SB01-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| | ~~VC-PM324-SB01-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| J8332 | VC-PM324-SS02-000H | 9/20/18 | 1340 | Grab | SS | 1 | X |
| J8333 | VC-PM324-SB02-0102 | 9/20/18 | 1345 | Grab | SB | 1 | X |
| J8334 | VC-PM324-SB02-0506 | 9/20/18 | 1351 | Grab | SB | 1 | X |
| | ~~VC-PM324-SS03-000H~~ | | | ~~Grab~~ | ~~SS~~ | | X |
| | ~~VC-PM324-SB03-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| | ~~VC-PM324-SB03-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| J8335 | VC-PM324-~~SB0506~~ SB02-0506-MS | 9/20/18 | 1351 | Grab | SB | 1 | X |
| J8336 | VC-PM324-~~SB0506~~ SB02-0506-MSD | 9/20/18 | 1351 | Grab | SB | 1 | X |
| | FDT-SO-EB | | | Grab | AQ | | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Tetra Tech | 9/24/18 730 | | Battelle | 9-25-18 1700 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone:<br>Email:<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal ☒<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 9 of 9 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| ~~VC-PM324-DW01-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| ~~VC-PM324-DW01P-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| JB337 VC-PM324-DW02-0918 | 9/20/18 | 1400 | Grab | GW | 8 | X |
| ~~VC-PM324-DW03-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| ~~FDT-AQ-FB-~~ | | | ~~Grab~~ | ~~AQ~~ | | X |
| ~~FDT-AQ-EB-~~ | | | ~~Grab~~ | ~~AQ~~ | | X |

*Receipt Temperature:(°C)* | *Samples Intact: Yes - No* | *Samples on Ice: Yes - No* | *Receipt Comments:*

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

Do Not Lift Using This Tag
ORIGIN ID:OXRA (303) 929-1887
JACOBS ENGINEERING
PO# 695803
402 W BROADWAY STE 1450
SAN DIEGO, CA 92101
UNITED STATES US
SHIP DATE: 24SEP18
ACTWGT: 70.70 LB
CAD: 6997666/SSF01904
DIMS: 25x14x14 IN
BILL THIRD PARTY
TO BATTELLE LABS
C/O JONATHAN THORN
141 LONGWATER DR.
STE 202
NORWELL MA 02061
(781) 681-5565
INV:
PO:
REF:
DEPT:
0.9°
Therm 1
FedEx
Express
REL# 3785346
1 of 2
TRK# 0201 7829 0673 4525
## MASTER ##
NB XPUA
TUE - 25 SEP 10:
PRIORITY OVERNI
02
MA-US
RT 246 2 B
ST 11.2 10:30 4525 09.25

Do Not Lift Using This Tag
ORIGIN ID:OXRA (303) 929-1887
JACOBS ENGINEERING
PO# 695803
402 W BROADWAY STE 1450
SAN DIEGO, CA 92101
UNITED STATES US
SHIP DATE: 24SEP18
ACTWGT: 66.70 LB
CAD: 6997666/SSF01904
DIMS: 23x16x15 IN
BILL THIRD PARTY
TO BATTELLE LABS
C/O JONATHAN THORN
141 LONGWATER DR.
STE 202
NORWELL MA 02061
(781) 681-5565
INV:
PO:
REF:
DEPT:
1.10
Therm-1
FedEx
Express
REL# 3785346
2 of 2
MPS# 0263 7829 0673 4536
Mstr# 7829 0673 4525
0201
NB XPUA
TUE - 25 SEP 10:30
PRIORITY OVERNIGH
AH
02061
MA-US BOS
RT 246 2 B
ST 11.2 10:30 4536 09.25

# Data Tables

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW01-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8285-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/05/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.270 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 799.96 | D | 4.40 | 11.57 | 115.74 |
| PFHpA | 375-85-9 | 67.65 | D | 1.48 | 4.63 | 46.30 |
| PFOA | 335-67-1 | 292.58 | D | 1.67 | 4.63 | 46.30 |
| PFNA | 375-95-1 | 3.27 | J | 0.24 | 0.93 | 4.63 |
| PFDA | 335-76-2 | 0.43 | J | 0.15 | 0.46 | 4.63 |
| PFUnA | 2058-94-8 | 0.93 | U | 0.27 | 0.93 | 4.63 |
| PFDoA | 307-55-1 | 0.46 | U | 0.17 | 0.46 | 4.63 |
| PFTrDA | 72629-94-8 | 0.46 | U | 0.14 | 0.46 | 4.63 |
| PFTeDA | 376-06-7 | 0.93 | U | 0.23 | 0.93 | 4.63 |
| NMeFOSAA | 2355-31-9 | 1.85 | U | 0.52 | 1.85 | 4.63 |
| NEtFOSAA | 2991-50-6 | 0.93 | U | 0.45 | 0.93 | 4.63 |
| PFBS | 375-73-5 | 188.33 | D | 1.20 | 4.63 | 46.30 |
| PFHxS | 355-46-4 | 2118.50 | D | 25.46 | 92.59 | 1157.41 |
| PFOS | 1763-23-1 | 8601.45 | D | 43.98 | 115.74 | 1157.41 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 119 | D | | | |
| 13C4-PFHpA | | 147 | D | | | |
| 13C8-PFOA | | 118 | D | | | |
| 13C9-PFNA | | 110 | D | | | |
| 13C6-PFDA | | 102 | | | | |
| 13C7-PFUnA | | 119 | | | | |
| 13C2-PFDoA | | 115 | | | | |
| 13C2-PFTeDA | | 99 | | | | |
| d3-MeFOSAA | | 134 | D | | | |
| d5-EtFOSAA | | 142 | D | | | |
| 13C3-PFBS | | 128 | D | | | |
| 13C3-PFHxS | | 110 | D | | | |
| 13C8-PFOS | | 131 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW01P-0918 | | | | |
| Battelle ID | | J8286-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.125 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 2900.34 | D | 19.00 | 50.00 | 500.00 |
| PFHpA | 375-85-9 | 254.57 | D | 1.60 | 5.00 | 50.00 |
| PFOA | 335-67-1 | 669.14 | D | 9.00 | 25.00 | 250.00 |
| PFNA | 375-95-1 | 11.96 | | 0.52 | 2.00 | 10.00 |
| PFDA | 335-76-2 | 1.52 | J | 0.32 | 1.00 | 10.00 |
| PFUnA | 2058-94-8 | 2.00 | U | 0.58 | 2.00 | 10.00 |
| PFDoA | 307-55-1 | 1.00 | U | 0.36 | 1.00 | 10.00 |
| PFTrDA | 72629-94-8 | 1.00 | U | 0.30 | 1.00 | 10.00 |
| PFTeDA | 376-06-7 | 2.00 | U | 0.50 | 2.00 | 10.00 |
| NMeFOSAA | 2355-31-9 | 4.00 | U | 1.12 | 4.00 | 10.00 |
| NEtFOSAA | 2991-50-6 | 2.00 | U | 0.98 | 2.00 | 10.00 |
| PFBS | 375-73-5 | 748.24 | D | 6.50 | 25.00 | 250.00 |
| PFHxS | 355-46-4 | 7650.20 | D | 55.00 | 200.00 | 2500.00 |
| PFOS | 1763-23-1 | 31190.47 | D | 475.00 | 1250.00 | 12500.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 131 | D | | | |
| 13C4-PFHpA | | 146 | D | | | |
| 13C8-PFOA | | 116 | D | | | |
| 13C9-PFNA | | 104 | D | | | |
| 13C6-PFDA | | 107 | | | | |
| 13C7-PFUnA | | 122 | | | | |
| 13C2-PFDoA | | 120 | | | | |
| 13C2-PFTeDA | | 102 | | | | |
| d3-MeFOSAA | | 111 | D | | | |
| d5-EtFOSAA | | 126 | D | | | |
| 13C3-PFBS | | 112 | D | | | |
| 13C3-PFHxS | | 147 | D | | | |
| 13C8-PFOS | | 121 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW02-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8287-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.275 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 295.83 | D | 10.80 | 28.41 | 284.09 |
| PFHpA | 375-85-9 | 38.23 | | 0.15 | 0.45 | 4.55 |
| PFOA | 335-67-1 | 167.19 | D | 0.82 | 2.27 | 22.73 |
| PFNA | 375-95-1 | 2.12 | J | 0.24 | 0.91 | 4.55 |
| PFDA | 335-76-2 | 0.27 | J | 0.15 | 0.45 | 4.55 |
| PFUnA | 2058-94-8 | 0.91 | U | 0.26 | 0.91 | 4.55 |
| PFDoA | 307-55-1 | 0.45 | U | 0.16 | 0.45 | 4.55 |
| PFTrDA | 72629-94-8 | 0.45 | U | 0.14 | 0.45 | 4.55 |
| PFTeDA | 376-06-7 | 0.91 | U | 0.23 | 0.91 | 4.55 |
| NMeFOSAA | 2355-31-9 | 1.82 | U | 0.51 | 1.82 | 4.55 |
| NEtFOSAA | 2991-50-6 | 0.91 | U | 0.45 | 0.91 | 4.55 |
| PFBS | 375-73-5 | 76.52 | D | 0.59 | 2.27 | 22.73 |
| PFHxS | 355-46-4 | 1115.91 | D | 6.25 | 22.73 | 284.09 |
| PFOS | 1763-23-1 | 4655.82 | D | 53.98 | 142.05 | 1420.45 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 127 | D | | | |
| 13C4-PFHpA | | 113 | | | | |
| 13C8-PFOA | | 109 | D | | | |
| 13C9-PFNA | | 110 | D | | | |
| 13C6-PFDA | | 119 | | | | |
| 13C7-PFUnA | | 130 | | | | |
| 13C2-PFDoA | | 119 | | | | |
| 13C2-PFTeDA | | 93 | | | | |
| d3-MeFOSAA | | 108 | D | | | |
| d5-EtFOSAA | | 130 | D | | | |
| 13C3-PFBS | | 140 | D | | | |
| 13C3-PFHxS | | 125 | D | | | |
| 13C8-PFOS | | 136 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW03-0918 | | | | |
| Battelle ID | | J8288-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.275 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 18.52 | | 0.17 | 0.45 | 4.55 |
| PFHpA | 375-85-9 | 9.10 | | 0.15 | 0.45 | 4.55 |
| PFOA | 335-67-1 | 67.75 | D | 0.82 | 2.27 | 22.73 |
| PFNA | 375-95-1 | 0.81 | J | 0.24 | 0.91 | 4.55 |
| PFDA | 335-76-2 | 0.45 | U | 0.15 | 0.45 | 4.55 |
| PFUnA | 2058-94-8 | 0.91 | U | 0.26 | 0.91 | 4.55 |
| PFDoA | 307-55-1 | 0.45 | U | 0.16 | 0.45 | 4.55 |
| PFTrDA | 72629-94-8 | 0.45 | U | 0.14 | 0.45 | 4.55 |
| PFTeDA | 376-06-7 | 0.91 | U | 0.23 | 0.91 | 4.55 |
| NMeFOSAA | 2355-31-9 | 1.82 | U | 0.51 | 1.82 | 4.55 |
| NEtFOSAA | 2991-50-6 | 0.91 | U | 0.45 | 0.91 | 4.55 |
| PFBS | 375-73-5 | 9.41 | | 0.12 | 0.45 | 4.55 |
| PFHxS | 355-46-4 | 64.30 | D | 0.50 | 1.82 | 22.73 |
| PFOS | 1763-23-1 | 65.69 | | 0.17 | 0.45 | 4.55 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 125 | |
| 13C4-PFHpA | 145 | |
| 13C8-PFOA | 124 | D |
| 13C9-PFNA | 110 | |
| 13C6-PFDA | 115 | |
| 13C7-PFUnA | 128 | |
| 13C2-PFDoA | 116 | |
| 13C2-PFTeDA | 103 | |
| d3-MeFOSAA | 96 | D |
| d5-EtFOSAA | 115 | D |
| 13C3-PFBS | 123 | |
| 13C3-PFHxS | 122 | D |
| 13C8-PFOS | 138 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW04-0918 | | | | |
| Battelle ID | | J8289-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.285 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 39.95 | | 0.17 | 0.44 | 4.39 |
| PFHpA | 375-85-9 | 26.25 | | 0.14 | 0.44 | 4.39 |
| PFOA | 335-67-1 | 835.09 | D | 3.95 | 10.96 | 109.65 |
| PFNA | 375-95-1 | 1.06 | J | 0.23 | 0.88 | 4.39 |
| PFDA | 335-76-2 | 0.44 | U | 0.14 | 0.44 | 4.39 |
| PFUnA | 2058-94-8 | 0.88 | U | 0.25 | 0.88 | 4.39 |
| PFDoA | 307-55-1 | 0.44 | U | 0.16 | 0.44 | 4.39 |
| PFTrDA | 72629-94-8 | 0.44 | U | 0.13 | 0.44 | 4.39 |
| PFTeDA | 376-06-7 | 0.88 | U | 0.22 | 0.88 | 4.39 |
| NMeFOSAA | 2355-31-9 | 1.75 | U | 0.49 | 1.75 | 4.39 |
| NEtFOSAA | 2991-50-6 | 0.88 | U | 0.43 | 0.88 | 4.39 |
| PFBS | 375-73-5 | 8.07 | | 0.11 | 0.44 | 4.39 |
| PFHxS | 355-46-4 | 46.10 | D | 0.48 | 1.75 | 21.93 |
| PFOS | 1763-23-1 | 51.45 | | 0.17 | 0.44 | 4.39 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 65 | |
| 13C4-PFHpA | 77 | |
| 13C8-PFOA | 128 | D |
| 13C9-PFNA | 62 | |
| 13C6-PFDA | 112 | |
| 13C7-PFUnA | 121 | |
| 13C2-PFDoA | 107 | |
| 13C2-PFTeDA | 74 | |
| d3-MeFOSAA | 149 | |
| d5-EtFOSAA | 150 | |
| 13C3-PFBS | 101 | |
| 13C3-PFHxS | 148 | D |
| 13C8-PFOS | 122 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW05-0918 | | | | |
| Battelle ID | | J8290-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.290 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 43.22 | | 0.16 | 0.43 | 4.31 |
| PFHpA | 375-85-9 | 4.46 | | 0.14 | 0.43 | 4.31 |
| PFOA | 335-67-1 | 33.13 | | 0.16 | 0.43 | 4.31 |
| PFNA | 375-95-1 | 2.53 | J | 0.22 | 0.86 | 4.31 |
| PFDA | 335-76-2 | 0.16 | J | 0.14 | 0.43 | 4.31 |
| PFUnA | 2058-94-8 | 0.86 | U | 0.25 | 0.86 | 4.31 |
| PFDoA | 307-55-1 | 0.43 | U | 0.16 | 0.43 | 4.31 |
| PFTrDA | 72629-94-8 | 0.43 | U | 0.13 | 0.43 | 4.31 |
| PFTeDA | 376-06-7 | 0.86 | U | 0.22 | 0.86 | 4.31 |
| NMeFOSAA | 2355-31-9 | 1.72 | U | 0.48 | 1.72 | 4.31 |
| NEtFOSAA | 2991-50-6 | 0.86 | U | 0.42 | 0.86 | 4.31 |
| PFBS | 375-73-5 | 9.28 | | 0.11 | 0.43 | 4.31 |
| PFHxS | 355-46-4 | 113.79 | D | 0.47 | 1.72 | 21.55 |
| PFOS | 1763-23-1 | 691.52 | D | 8.19 | 21.55 | 215.52 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 128 | |
| 13C4-PFHpA | 147 | |
| 13C8-PFOA | 101 | |
| 13C9-PFNA | 84 | |
| 13C6-PFDA | 105 | |
| 13C7-PFUnA | 123 | |
| 13C2-PFDoA | 117 | |
| 13C2-PFTeDA | 81 | |
| d3-MeFOSAA | 135 | |
| d5-EtFOSAA | 135 | D |
| 13C3-PFBS | 144 | D |
| 13C3-PFHxS | 149 | D |
| 13C8-PFOS | 129 | D |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | |
|---|---|---|---|---|---|
| Client ID | | VC-SO-FB04-092118 | | | |
| Battelle ID | | J8308-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/21/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.265 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.47 U | 0.18 | 0.47 | 4.72 |
| PFHpA | 375-85-9 | 0.47 U | 0.15 | 0.47 | 4.72 |
| PFOA | 335-67-1 | 0.92 J | 0.17 | 0.47 | 4.72 |
| PFNA | 375-95-1 | 0.94 U | 0.25 | 0.94 | 4.72 |
| PFDA | 335-76-2 | 0.47 U | 0.15 | 0.47 | 4.72 |
| PFUnA | 2058-94-8 | 0.35 J | 0.27 | 0.94 | 4.72 |
| PFDoA | 307-55-1 | 0.46 J | 0.17 | 0.47 | 4.72 |
| PFTrDA | 72629-94-8 | 0.69 J | 0.14 | 0.47 | 4.72 |
| PFTeDA | 376-06-7 | 0.67 J | 0.24 | 0.94 | 4.72 |
| NMeFOSAA | 2355-31-9 | 1.89 U | 0.53 | 1.89 | 4.72 |
| NEtFOSAA | 2991-50-6 | 0.94 U | 0.46 | 0.94 | 4.72 |
| PFBS | 375-73-5 | 0.47 U | 0.12 | 0.47 | 4.72 |
| PFHxS | 355-46-4 | 0.38 U | 0.10 | 0.38 | 4.72 |
| PFOS | 1763-23-1 | 0.47 U | 0.18 | 0.47 | 4.72 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 121 |
| 13C4-PFHpA | 118 |
| 13C8-PFOA | 113 |
| 13C9-PFNA | 108 |
| 13C6-PFDA | 108 |
| 13C7-PFUnA | 122 |
| 13C2-PFDoA | 113 |
| 13C2-PFTeDA | 102 |
| d3-MeFOSAA | 105 |
| d5-EtFOSAA | 111 |
| 13C3-PFBS | 113 |
| 13C3-PFHxS | 121 |
| 13C8-PFOS | 143 |

BATTELLE
It can be done

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | |
|---|---|---|---|---|---|
| Client ID | | VC-SO-EB04-092118 | | | |
| Battelle ID | | J8309-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/21/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.260 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.48 U | 0.18 | 0.48 | 4.81 |
| PFHpA | 375-85-9 | 0.48 U | 0.15 | 0.48 | 4.81 |
| PFOA | 335-67-1 | 1.06 J | 0.17 | 0.48 | 4.81 |
| PFNA | 375-95-1 | 0.96 U | 0.25 | 0.96 | 4.81 |
| PFDA | 335-76-2 | 0.48 U | 0.15 | 0.48 | 4.81 |
| PFUnA | 2058-94-8 | 0.32 J | 0.28 | 0.96 | 4.81 |
| PFDoA | 307-55-1 | 0.38 J | 0.17 | 0.48 | 4.81 |
| PFTrDA | 72629-94-8 | 0.50 J | 0.14 | 0.48 | 4.81 |
| PFTeDA | 376-06-7 | 0.51 J | 0.24 | 0.96 | 4.81 |
| NMeFOSAA | 2355-31-9 | 1.92 U | 0.54 | 1.92 | 4.81 |
| NEtFOSAA | 2991-50-6 | 0.96 U | 0.47 | 0.96 | 4.81 |
| PFBS | 375-73-5 | 0.48 U | 0.13 | 0.48 | 4.81 |
| PFHxS | 355-46-4 | 0.38 U | 0.11 | 0.38 | 4.81 |
| PFOS | 1763-23-1 | 0.37 J | 0.18 | 0.48 | 4.81 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 119 |
| 13C4-PFHpA | 117 |
| 13C8-PFOA | 112 |
| 13C9-PFNA | 101 |
| 13C6-PFDA | 119 |
| 13C7-PFUnA | 119 |
| 13C2-PFDoA | 120 |
| 13C2-PFTeDA | 123 |
| d3-MeFOSAA | 123 |
| d5-EtFOSAA | 116 |
| 13C3-PFBS | 135 |
| 13C3-PFHxS | 128 |
| 13C8-PFOS | 133 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW01-0918 | | | | |
| Battelle ID | | J8319-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 290462.77 | D | 1187.50 | 3125.00 | 31250.00 |
| PFHpA | 375-85-9 | 37625.38 | D | 200.00 | 625.00 | 6250.00 |
| PFOA | 335-67-1 | 93975.76 | D | 1125.00 | 3125.00 | 31250.00 |
| PFNA | 375-95-1 | 1606.04 | | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 62.50 | U | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 192484.14 | D | 812.50 | 3125.00 | 31250.00 |
| PFHxS | 355-46-4 | 1829893.56 | D | 3437.50 | 12500.00 | 156250.00 |
| PFOS | 1763-23-1 | 2277022.98 | D | 29687.50 | 78125.00 | 781250.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 131 | D | | | |
| 13C4-PFHpA | | 128 | D | | | |
| 13C8-PFOA | | 125 | D | | | |
| 13C9-PFNA | | 113 | D | | | |
| 13C6-PFDA | | 109 | | | | |
| 13C7-PFUnA | | 117 | | | | |
| 13C2-PFDoA | | 106 | | | | |
| 13C2-PFTeDA | | 104 | | | | |
| d3-MeFOSAA | | 113 | D | | | |
| d5-EtFOSAA | | 133 | D | | | |
| 13C3-PFBS | | 125 | D | | | |
| 13C3-PFHxS | | 115 | D | | | |
| 13C8-PFOS | | 121 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW01P-0918 | | | | |
| Battelle ID | | J8320-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 240605.51 | D | 1187.50 | 3125.00 | 31250.00 |
| PFHpA | 375-85-9 | 41198.27 | D | 250.00 | 781.25 | 7812.50 |
| PFOA | 335-67-1 | 84927.54 | D | 1125.00 | 3125.00 | 31250.00 |
| PFNA | 375-95-1 | 1691.83 | | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 93.88 | J | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 161646.30 | D | 812.50 | 3125.00 | 31250.00 |
| PFHxS | 355-46-4 | 1135491.62 | D | 13750.00 | 50000.00 | 625000.00 |
| PFOS | 1763-23-1 | 1859368.47 | D | 23750.00 | 62500.00 | 625000.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 137 | D | | | |
| 13C4-PFHpA | | 128 | D | | | |
| 13C8-PFOA | | 127 | D | | | |
| 13C9-PFNA | | 106 | D | | | |
| 13C6-PFDA | | 104 | | | | |
| 13C7-PFUnA | | 114 | | | | |
| 13C2-PFDoA | | 106 | | | | |
| 13C2-PFTeDA | | 98 | | | | |
| d3-MeFOSAA | | 88 | D | | | |
| d5-EtFOSAA | | 115 | D | | | |
| 13C3-PFBS | | 121 | D | | | |
| 13C3-PFHxS | | 132 | D | | | |
| 13C8-PFOS | | 120 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW02-0918 | | | | |
| Battelle ID | | J8321-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 533887.52 | D | 2968.75 | 7812.50 | 78125.00 |
| PFHpA | 375-85-9 | 62015.72 | D | 200.00 | 625.00 | 6250.00 |
| PFOA | 335-67-1 | 94310.25 | D | 562.50 | 1562.50 | 15625.00 |
| PFNA | 375-95-1 | 538.40 | J | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 62.50 | U | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 403376.78 | D | 2031.25 | 7812.50 | 78125.00 |
| PFHxS | 355-46-4 | 1477828.48 | D | 8593.75 | 31250.00 | 390625.00 |
| PFOS | 1763-23-1 | 652847.24 | D | 2968.75 | 7812.50 | 78125.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 120 | D | | | |
| 13C4-PFHpA | | 132 | D | | | |
| 13C8-PFOA | | 119 | D | | | |
| 13C9-PFNA | | 107 | D | | | |
| 13C6-PFDA | | 103 | | | | |
| 13C7-PFUnA | | 123 | | | | |
| 13C2-PFDoA | | 113 | | | | |
| 13C2-PFTeDA | | 95 | | | | |
| d3-MeFOSAA | | 118 | D | | | |
| d5-EtFOSAA | | 117 | D | | | |
| 13C3-PFBS | | 146 | D | | | |
| 13C3-PFHxS | | 123 | D | | | |
| 13C8-PFOS | | 144 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-324-DW03-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8322-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 3158327.03 | D | 98958.34 | 260416.69 | 2604166.88 |
| PFHpA | 375-85-9 | 490433.60 | D | 8333.34 | 26041.69 | 260416.88 |
| PFOA | 335-67-1 | 1071529.99 | D | 9375.01 | 26041.69 | 260416.88 |
| PFNA | 375-95-1 | 8063.63 | | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 546.37 | J | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 2034520.47 | D | 6770.84 | 26041.69 | 260416.88 |
| PFHxS | 355-46-4 | 12586869.28 | D | 57291.67 | 208333.35 | 2604166.88 |
| PFOS | 1763-23-1 | 13407957.09 | D | 98958.34 | 260416.69 | 2604166.88 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 124 | D | | | |
| 13C4-PFHpA | | 116 | D | | | |
| 13C8-PFOA | | 117 | D | | | |
| 13C9-PFNA | | 119 | D | | | |
| 13C6-PFDA | | 117 | | | | |
| 13C7-PFUnA | | 129 | | | | |
| 13C2-PFDoA | | 117 | | | | |
| 13C2-PFTeDA | | 106 | | | | |
| d3-MeFOSAA | | 113 | D | | | |
| d5-EtFOSAA | | 121 | D | | | |
| 13C3-PFBS | | 109 | D | | | |
| 13C3-PFHxS | | 120 | D | | | |
| 13C8-PFOS | | 125 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-AQ-FB03-092018 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8323-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.270 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.46 U | 0.18 | 0.46 | 4.63 |
| PFHpA | 375-85-9 | 0.46 U | 0.15 | 0.46 | 4.63 |
| PFOA | 335-67-1 | 0.85 J | 0.17 | 0.46 | 4.63 |
| PFNA | 375-95-1 | 0.93 U | 0.24 | 0.93 | 4.63 |
| PFDA | 335-76-2 | 0.46 U | 0.15 | 0.46 | 4.63 |
| PFUnA | 2058-94-8 | 0.93 U | 0.27 | 0.93 | 4.63 |
| PFDoA | 307-55-1 | 0.18 J | 0.17 | 0.46 | 4.63 |
| PFTrDA | 72629-94-8 | 0.24 J | 0.14 | 0.46 | 4.63 |
| PFTeDA | 376-06-7 | 0.25 J | 0.23 | 0.93 | 4.63 |
| NMeFOSAA | 2355-31-9 | 1.85 U | 0.52 | 1.85 | 4.63 |
| NEtFOSAA | 2991-50-6 | 0.93 U | 0.45 | 0.93 | 4.63 |
| PFBS | 375-73-5 | 0.46 U | 0.12 | 0.46 | 4.63 |
| PFHxS | 355-46-4 | 0.37 U | 0.10 | 0.37 | 4.63 |
| PFOS | 1763-23-1 | 0.46 U | 0.18 | 0.46 | 4.63 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 111 |
| 13C4-PFHpA | 110 |
| 13C8-PFOA | 106 |
| 13C9-PFNA | 106 |
| 13C6-PFDA | 113 |
| 13C7-PFUnA | 116 |
| 13C2-PFDoA | 106 |
| 13C2-PFTeDA | 107 |
| d3-MeFOSAA | 100 |
| d5-EtFOSAA | 117 |
| 13C3-PFBS | 123 |
| 13C3-PFHxS | 129 |
| 13C8-PFOS | 138 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-AQ-EB03-092018 | | | | |
| Battelle ID | | J8324-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/05/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | AQ | | | | |
| Sample Size | | 0.210 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.60 | U | 0.23 | 0.60 | 5.95 |
| PFHpA | 375-85-9 | 0.60 | U | 0.19 | 0.60 | 5.95 |
| PFOA | 335-67-1 | 1.51 | J | 0.21 | 0.60 | 5.95 |
| PFNA | 375-95-1 | 1.19 | U | 0.31 | 1.19 | 5.95 |
| PFDA | 335-76-2 | 0.60 | U | 0.19 | 0.60 | 5.95 |
| PFUnA | 2058-94-8 | 1.19 | U | 0.35 | 1.19 | 5.95 |
| PFDoA | 307-55-1 | 0.60 | U | 0.21 | 0.60 | 5.95 |
| PFTrDA | 72629-94-8 | 0.19 | J | 0.18 | 0.60 | 5.95 |
| PFTeDA | 376-06-7 | 1.19 | U | 0.30 | 1.19 | 5.95 |
| NMeFOSAA | 2355-31-9 | 2.38 | U | 0.67 | 2.38 | 5.95 |
| NEtFOSAA | 2991-50-6 | 1.19 | U | 0.58 | 1.19 | 5.95 |
| PFBS | 375-73-5 | 0.60 | U | 0.15 | 0.60 | 5.95 |
| PFHxS | 355-46-4 | 0.32 | J | 0.13 | 0.48 | 5.95 |
| PFOS | 1763-23-1 | 15.13 | | 0.23 | 0.60 | 5.95 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 115 |
| 13C4-PFHpA | 114 |
| 13C8-PFOA | 108 |
| 13C9-PFNA | 108 |
| 13C6-PFDA | 126 |
| 13C7-PFUnA | 129 |
| 13C2-PFDoA | 121 |
| 13C2-PFTeDA | 130 |
| d3-MeFOSAA | 87 |
| d5-EtFOSAA | 105 |
| 13C3-PFBS | 107 |
| 13C3-PFHxS | 108 |
| 13C8-PFOS | 106 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-DW02-0918 | | | | |
| Battelle ID | | J8330-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.100 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 11894.21 | D | 197.92 | 520.83 | 5208.34 |
| PFHpA | 375-85-9 | 1440.83 | D | 10.00 | 31.25 | 312.50 |
| PFOA | 335-67-1 | 1817.08 | D | 11.25 | 31.25 | 312.50 |
| PFNA | 375-95-1 | 4.53 | J | 0.65 | 2.50 | 12.50 |
| PFDA | 335-76-2 | 1.25 | U | 0.40 | 1.25 | 12.50 |
| PFUnA | 2058-94-8 | 2.50 | U | 0.73 | 2.50 | 12.50 |
| PFDoA | 307-55-1 | 1.25 | U | 0.45 | 1.25 | 12.50 |
| PFTrDA | 72629-94-8 | 1.25 | U | 0.38 | 1.25 | 12.50 |
| PFTeDA | 376-06-7 | 2.50 | U | 0.63 | 2.50 | 12.50 |
| NMeFOSAA | 2355-31-9 | 5.00 | U | 1.40 | 5.00 | 12.50 |
| NEtFOSAA | 2991-50-6 | 2.50 | U | 1.23 | 2.50 | 12.50 |
| PFBS | 375-73-5 | 9969.22 | D | 135.42 | 520.83 | 5208.34 |
| PFHxS | 355-46-4 | 39703.31 | D | 114.58 | 416.67 | 5208.34 |
| PFOS | 1763-23-1 | 1980.13 | D | 11.88 | 31.25 | 312.50 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 118 | D | | | |
| 13C4-PFHpA | | 120 | D | | | |
| 13C8-PFOA | | 108 | D | | | |
| 13C9-PFNA | | 71 | | | | |
| 13C6-PFDA | | 120 | | | | |
| 13C7-PFUnA | | 122 | | | | |
| 13C2-PFDoA | | 111 | | | | |
| 13C2-PFTeDA | | 97 | | | | |
| d3-MeFOSAA | | 124 | | | | |
| d5-EtFOSAA | | 120 | D | | | |
| 13C3-PFBS | | 121 | D | | | |
| 13C3-PFHxS | | 109 | D | | | |
| 13C8-PFOS | | 147 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-DW02P-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8331-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.100 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 11881.64 | D | 47.50 | 125.00 | 1250.00 |
| PFHpA | 375-85-9 | 1498.54 | D | 40.00 | 125.00 | 1250.00 |
| PFOA | 335-67-1 | 1792.14 | D | 45.00 | 125.00 | 1250.00 |
| PFNA | 375-95-1 | 3.89 | J | 0.65 | 2.50 | 12.50 |
| PFDA | 335-76-2 | 1.25 | U | 0.40 | 1.25 | 12.50 |
| PFUnA | 2058-94-8 | 2.50 | U | 0.73 | 2.50 | 12.50 |
| PFDoA | 307-55-1 | 1.25 | U | 0.45 | 1.25 | 12.50 |
| PFTrDA | 72629-94-8 | 1.25 | U | 0.38 | 1.25 | 12.50 |
| PFTeDA | 376-06-7 | 2.50 | U | 0.63 | 2.50 | 12.50 |
| NMeFOSAA | 2355-31-9 | 5.00 | U | 1.40 | 5.00 | 12.50 |
| NEtFOSAA | 2991-50-6 | 2.50 | U | 1.23 | 2.50 | 12.50 |
| PFBS | 375-73-5 | 9828.61 | D | 32.50 | 125.00 | 1250.00 |
| PFHxS | 355-46-4 | 40736.06 | D | 68.75 | 250.00 | 3125.00 |
| PFOS | 1763-23-1 | 1921.73 | D | 47.50 | 125.00 | 1250.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 124 | D | | | |
| 13C4-PFHpA | | 123 | D | | | |
| 13C8-PFOA | | 119 | D | | | |
| 13C9-PFNA | | 80 | | | | |
| 13C6-PFDA | | 110 | | | | |
| 13C7-PFUnA | | 114 | | | | |
| 13C2-PFDoA | | 104 | | | | |
| 13C2-PFTeDA | | 105 | | | | |
| d3-MeFOSAA | | 90 | | | | |
| d5-EtFOSAA | | 123 | | | | |
| 13C3-PFBS | | 134 | D | | | |
| 13C3-PFHxS | | 113 | D | | | |
| 13C8-PFOS | | 121 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM324-DW02-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8337-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.125 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 3251.34 | D | 12.67 | 33.33 | 333.33 |
| PFHpA | 375-85-9 | 634.23 | D | 3.20 | 10.00 | 100.00 |
| PFOA | 335-67-1 | 1477.57 | D | 12.00 | 33.33 | 333.33 |
| PFNA | 375-95-1 | 12.03 | | 0.52 | 2.00 | 10.00 |
| PFDA | 335-76-2 | 1.17 | J | 0.32 | 1.00 | 10.00 |
| PFUnA | 2058-94-8 | 2.00 | U | 0.58 | 2.00 | 10.00 |
| PFDoA | 307-55-1 | 1.00 | U | 0.36 | 1.00 | 10.00 |
| PFTrDA | 72629-94-8 | 1.00 | U | 0.30 | 1.00 | 10.00 |
| PFTeDA | 376-06-7 | 2.00 | U | 0.50 | 2.00 | 10.00 |
| NMeFOSAA | 2355-31-9 | 4.00 | U | 1.12 | 4.00 | 10.00 |
| NEtFOSAA | 2991-50-6 | 2.00 | U | 0.98 | 2.00 | 10.00 |
| PFBS | 375-73-5 | 3501.38 | D | 8.67 | 33.33 | 333.33 |
| PFHxS | 355-46-4 | 26686.80 | D | 366.67 | 1333.33 | 16666.67 |
| PFOS | 1763-23-1 | 5312.32 | D | 19.00 | 50.00 | 500.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 134 | D | | | |
| 13C4-PFHpA | | 128 | D | | | |
| 13C8-PFOA | | 116 | D | | | |
| 13C9-PFNA | | 78 | | | | |
| 13C6-PFDA | | 106 | | | | |
| 13C7-PFUnA | | 110 | | | | |
| 13C2-PFDoA | | 97 | | | | |
| 13C2-PFTeDA | | 94 | | | | |
| d3-MeFOSAA | | 139 | | | | |
| d5-EtFOSAA | | 131 | | | | |
| 13C3-PFBS | | 128 | D | | | |
| 13C3-PFHxS | | 121 | D | | | |
| 13C8-PFOS | | 108 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | KB80 IB | | | |
|---|---|---|---|---|---|
| Battelle ID | | KB80 IB_10/05/2018 | | | |
| Sample Type | | IB | | | |
| Collection Date | | NA | | | |
| Extraction Date | | NA | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | Water | | | |
| Sample Size | | 0.250 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFOA | 335-67-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 90 |
| 13C4-PFHpA | 92 |
| 13C8-PFOA | 93 |
| 13C9-PFNA | 89 |
| 13C6-PFDA | 100 |
| 13C7-PFUnA | 112 |
| 13C2-PFDoA | 106 |
| 13C2-PFTeDA | 101 |
| d3-MeFOSAA | 90 |
| d5-EtFOSAA | 101 |
| 13C3-PFBS | 90 |
| 13C3-PFHxS | 99 |
| 13C8-PFOS | 93 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | KB80 IB | | | |
|---|---|---|---|---|---|
| Battelle ID | | KB80 IB_10/08/2018 | | | |
| Sample Type | | IB | | | |
| Collection Date | | NA | | | |
| Extraction Date | | NA | | | |
| Analysis Date | | 10/08/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | Water | | | |
| Sample Size | | 0.250 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFOA | 335-67-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 92 |
| 13C4-PFHpA | 93 |
| 13C8-PFOA | 92 |
| 13C9-PFNA | 93 |
| 13C6-PFDA | 107 |
| 13C7-PFUnA | 100 |
| 13C2-PFDoA | 99 |
| 13C2-PFTeDA | 96 |
| d3-MeFOSAA | 80 |
| d5-EtFOSAA | 86 |
| 13C3-PFBS | 90 |
| 13C3-PFHxS | 93 |
| 13C8-PFOS | 98 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | KB80 IB | | | | KB80 IB |
|---|---|---|---|---|---|---|
| Battelle ID | | KB80 IB_10/10/2018 | | | | KB80 IB_10/17/2018 |
| Sample Type | | IB | | | | IB |
| Collection Date | | NA | | | | NA |
| Extraction Date | | NA | | | | NA |
| Analysis Date | | 10/10/2018 | | | | 10/17/2018 |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | Sciex 5500 LC/MS/MS |
| % Moisture | | NA | | | | NA |
| Matrix | | Water | | | | Water |
| Sample Size | | 0.250 | | | | 0.250 |
| Size Unit-Basis | | L | | | | L |
| Units | | ng/L | MDL | LOD | LOQ | ng/L |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 | - |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 | - |
| PFOA | 335-67-1 | 0.50 U | 0.18 | 0.50 | 5.00 | - |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 | - |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 | - |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 | - |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 | - |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 | - |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 | - |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 | - |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 | 1.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 | - |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 | - |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 | 0.50 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 101 | | | | - |
| 13C4-PFHpA | | 95 | | | | - |
| 13C8-PFOA | | 107 | | | | - |
| 13C9-PFNA | | 85 | | | | - |
| 13C6-PFDA | | 94 | | | | - |
| 13C7-PFUnA | | 101 | | | | - |
| 13C2-PFDoA | | 95 | | | | - |
| 13C2-PFTeDA | | 91 | | | | - |
| d3-MeFOSAA | | 77 | | | | - |
| d5-EtFOSAA | | 94 | | | | 96 |
| 13C3-PFBS | | 83 | | | | - |
| 13C3-PFHxS | | 86 | | | | - |
| 13C8-PFOS | | 88 | | | | 96 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Client ID | | | | | | KB80 IB | | |
| Battelle ID | | | | | | KB80 IB_10/19/2018 | | |
| Sample Type | | | | | | IB | | |
| Collection Date | | | | | | NA | | |
| Extraction Date | | | | | | NA | | |
| Analysis Date | | | | | | 10/19/2018 | | |
| Analytical Instrument | | | | | | Sciex 5500 LC/MS/MS | | |
| % Moisture | | | | | | NA | | |
| Matrix | | | | | | Water | | |
| Sample Size | | | | | | 0.250 | | |
| Size Unit-Basis | | | | | | L | | |
| Units | | | MDL | LOD | LOQ | ng/L | | MDL |
| PFHxA | 307-24-4 | - | - | - | - | - | - | - |
| PFHpA | 375-85-9 | - | - | - | - | - | - | - |
| PFOA | 335-67-1 | - | - | - | - | - | - | - |
| PFNA | 375-95-1 | - | - | - | - | - | - | - |
| PFDA | 335-76-2 | - | - | - | - | - | - | - |
| PFUnA | 2058-94-8 | - | - | - | - | - | - | - |
| PFDoA | 307-55-1 | - | - | - | - | - | - | - |
| PFTrDA | 72629-94-8 | - | - | - | - | - | - | - |
| PFTeDA | 376-06-7 | - | - | - | - | - | - | - |
| NMeFOSAA | 2355-31-9 | - | - | - | - | - | - | - |
| NEtFOSAA | 2991-50-6 | U | 0.49 | 1.00 | 5.00 | 1.00 | U | 0.49 |
| PFBS | 375-73-5 | - | - | - | - | - | - | - |
| PFHxS | 355-46-4 | - | - | - | - | - | - | - |
| PFOS | 1763-23-1 | U | 0.19 | 0.50 | 5.00 | - | - | - |
| ***Surrogate Recoveries (%)*** | | | | | | | | |
| 13C5-PFHxA | | - | | | | - | - | |
| 13C4-PFHpA | | - | | | | - | - | |
| 13C8-PFOA | | - | | | | - | - | |
| 13C9-PFNA | | - | | | | - | - | |
| 13C6-PFDA | | - | | | | - | - | |
| 13C7-PFUnA | | - | | | | - | - | |
| 13C2-PFDoA | | - | | | | - | - | |
| 13C2-PFTeDA | | - | | | | - | - | |
| d3-MeFOSAA | | - | | | | - | - | |
| d5-EtFOSAA | | | | | | 64 | | |
| 13C3-PFBS | | - | | | | - | - | |
| 13C3-PFHxS | | - | | | | - | - | |
| 13C8-PFOS | | | | | | - | - | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

Client ID

Battelle ID
Sample Type
Collection Date
Extraction Date
Analysis Date
Analytical Instrument
% Moisture
Matrix
Sample Size
Size Unit-Basis

| Units | | LOD | LOQ |
|---|---|---|---|
| PFHxA | 307-24-4 | - | - |
| PFHpA | 375-85-9 | - | - |
| PFOA | 335-67-1 | - | - |
| PFNA | 375-95-1 | - | - |
| PFDA | 335-76-2 | - | - |
| PFUnA | 2058-94-8 | - | - |
| PFDoA | 307-55-1 | - | - |
| PFTrDA | 72629-94-8 | - | - |
| PFTeDA | 376-06-7 | - | - |
| NMeFOSAA | 2355-31-9 | - | - |
| NEtFOSAA | 2991-50-6 | 1.00 | 5.00 |
| PFBS | 375-73-5 | - | - |
| PFHxS | 355-46-4 | - | - |
| PFOS | 1763-23-1 | - | - |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | |
| 13C4-PFHpA | |
| 13C8-PFOA | |
| 13C9-PFNA | |
| 13C6-PFDA | |
| 13C7-PFUnA | |
| 13C2-PFDoA | |
| 13C2-PFTeDA | |
| d3-MeFOSAA | |
| d5-EtFOSAA | |
| 13C3-PFBS | |
| 13C3-PFHxS | |
| 13C8-PFOS | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | Procedural Blank | | | |
|---|---|---|---|---|---|
| Battelle ID | | CR884PB-FS | | | |
| Sample Type | | PB | | | |
| Collection Date | | 09/28/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | WATER | | | |
| Sample Size | | 0.250 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFOA | 335-67-1 | 0.90 J | 0.18 | 0.50 | 5.00 |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 130 |
| 13C4-PFHpA | 130 |
| 13C8-PFOA | 131 |
| 13C9-PFNA | 114 |
| 13C6-PFDA | 129 |
| 13C7-PFUnA | 131 |
| 13C2-PFDoA | 125 |
| 13C2-PFTeDA | 117 |
| d3-MeFOSAA | 119 |
| d5-EtFOSAA | 118 |
| 13C3-PFBS | 122 |
| 13C3-PFHxS | 125 |
| 13C8-PFOS | 125 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | Laboratory Control Sample | | | | | |
|---|---|---|---|---|---|---|---|
| Battelle ID | | CR885LCS-FS | | | | | |
| Sample Type | | LCS | | | | | |
| Collection Date | | 09/28/2018 | | | | | |
| Extraction Date | | 09/28/2018 | | | | | |
| Analysis Date | | 10/05/2018 | | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | | |
| % Moisture | | NA | | | | | |
| Matrix | | WATER | | | | | |
| Sample Size | | 0.250 | | | | | |
| Size Unit-Basis | | L | | | | Control Limits | |
| Units | | ng/L | Target | Recovery | Qual | Lower | Upper |
| PFHxA | 307-24-4 | 27.68 | 30.30 | 91 | | 51 | 137 |
| PFHpA | 375-85-9 | 28.17 | 30.00 | 94 | | 48 | 136 |
| PFOA | 335-67-1 | 31.08 | 30.00 | 104 | | 49 | 141 |
| PFNA | 375-95-1 | 33.09 | 30.00 | 110 | | 58 | 122 |
| PFDA | 335-76-2 | 30.82 | 30.00 | 103 | | 59 | 135 |
| PFUnA | 2058-94-8 | 27.76 | 30.00 | 93 | | 64 | 134 |
| PFDoA | 307-55-1 | 29.82 | 30.00 | 99 | | 75 | 131 |
| PFTrDA | 72629-94-8 | 31.97 | 30.00 | 107 | | 42 | 148 |
| PFTeDA | 376-06-7 | 32.13 | 30.00 | 107 | | 42 | 158 |
| NMeFOSAA | 2355-31-9 | 26.72 | 30.00 | 89 | | 50 | 146 |
| NEtFOSAA | 2991-50-6 | 36.93 | 30.00 | 123 | | 51 | 131 |
| PFBS | 375-73-5 | 28.91 | 30.30 | 95 | | 56 | 134 |
| PFHxS | 355-46-4 | 32.78 | 30.30 | 108 | | 52 | 128 |
| PFOS | 1763-23-1 | 25.94 | 30.00 | 86 | | 40 | 144 |
| ***Surrogate Recoveries (%)*** | | | | | | | |
| 13C5-PFHxA | | 118 | | | | | |
| 13C4-PFHpA | | 115 | | | | | |
| 13C8-PFOA | | 104 | | | | | |
| 13C9-PFNA | | 98 | | | | | |
| 13C6-PFDA | | 109 | | | | | |
| 13C7-PFUnA | | 122 | | | | | |
| 13C2-PFDoA | | 116 | | | | | |
| 13C2-PFTeDA | | 111 | | | | | |
| d3-MeFOSAA | | 111 | | | | | |
| d5-EtFOSAA | | 98 | | | | | |
| 13C3-PFBS | | 128 | | | | | |
| 13C3-PFHxS | | 99 | | | | | |
| 13C8-PFOS | | 118 | | | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-324-DW02-0918 | VC-PM323-324-DW02-0918-MS | | | | | |
|---|---|---|---|---|---|---|---|---|
| Battelle ID | | J8321-FS | J8325MS-FS | | | | | |
| Sample Type | | SA | MS | | | | | |
| Collection Date | | 09/20/2018 | 09/20/2018 | | | | | |
| Extraction Date | | 09/28/2018 | 09/28/2018 | | | | | |
| Analysis Date | | 10/06/2018 | 10/06/2018 | | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | Sciex 5500 LC/MS/MS | | | | | |
| % Moisture | | NA | NA | | | | | |
| Matrix | | GW | SB | | | | | |
| Sample Size | | 0.002 | 0.002 | | | | | |
| Size Unit-Basis | | L | L | | | | Control Limits | |
| Units | | ng/L | ng/L | Target | Recovery | Qual | Lower | Upper |
| PFHxA | 307-24-4 | 533887.52 D | 564148.64 D | 7575.00 | 0 | N | 51 | 137 |
| PFHpA | 375-85-9 | 62015.72 D | 73408.29 D | 7500.00 | 152 | N | 48 | 136 |
| PFOA | 335-67-1 | 94310.25 D | 114538.78 D | 7500.00 | 270 | N | 49 | 141 |
| PFNA | 375-95-1 | 538.40 J | 8536.76 | 7500.00 | 107 | | 58 | 122 |
| PFDA | 335-76-2 | 62.50 U | 7100.86 | 7500.00 | 95 | | 59 | 135 |
| PFUnA | 2058-94-8 | 125.00 U | 6916.54 | 7500.00 | 92 | | 64 | 134 |
| PFDoA | 307-55-1 | 62.50 U | 6648.18 | 7500.00 | 89 | | 75 | 131 |
| PFTrDA | 72629-94-8 | 62.50 U | 7003.56 | 7500.00 | 93 | | 42 | 148 |
| PFTeDA | 376-06-7 | 125.00 U | 6922.68 | 7500.00 | 92 | | 42 | 158 |
| NMeFOSAA | 2355-31-9 | 250.00 U | 6486.79 D | 7500.00 | 86 | | 50 | 146 |
| NEtFOSAA | 2991-50-6 | 125.00 U | 6597.28 D | 7500.00 | 88 | | 51 | 131 |
| PFBS | 375-73-5 | 403376.78 D | 455722.10 D | 7575.00 | 691 | N | 56 | 134 |
| PFHxS | 355-46-4 | 1477828.48 D | 1604280.38 D | 7575.00 | 1669 | N | 52 | 128 |
| PFOS | 1763-23-1 | 652847.24 D | 475452.07 D | 7500.00 | 0 | N | 40 | 144 |
| ***Surrogate Recoveries (%)*** | | | | | | | | |
| 13C5-PFHxA | | 120 D | 122 D | | | | | |
| 13C4-PFHpA | | 132 D | 119 D | | | | | |
| 13C8-PFOA | | 119 D | 118 D | | | | | |
| 13C9-PFNA | | 107 D | 106 D | | | | | |
| 13C6-PFDA | | 103 | 106 | | | | | |
| 13C7-PFUnA | | 123 | 108 | | | | | |
| 13C2-PFDoA | | 113 | 117 | | | | | |
| 13C2-PFTeDA | | 95 | 112 | | | | | |
| d3-MeFOSAA | | 118 D | 127 D | | | | | |
| d5-EtFOSAA | | 117 D | 148 D | | | | | |
| 13C3-PFBS | | 146 D | 138 D | | | | | |
| 13C3-PFHxS | | 123 D | 122 D | | | | | |
| 13C8-PFOS | | 144 D | 142 D | | | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW02-0918-MSD | | | | | | | | | |
| Battelle ID | | J8326MSD-FS | | | | | | | | | |
| Sample Type | | MSD | | | | | | | | | |
| Collection Date | | 09/20/2018 | | | | | | | | | |
| Extraction Date | | 09/28/2018 | | | | | | | | | |
| Analysis Date | | 10/06/2018 | | | | | | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | | | | | | |
| % Moisture | | NA | | | | | | | | | |
| Matrix | | SB | | | | | | | | | |
| Sample Size | | 0.002 | | | | | | | | | |
| Size Unit-Basis | | L | | | | | Control Limits | | | | RPD |
| Units | | ng/L | | Target | Recovery | Qual | Lower | Upper | RPD | Qual | Limit |
| PFHxA | 307-24-4 | 544264.01 | D | 7575.00 | 0 | N | 51 | 137 | 0.0 | | ≤ 30 |
| PFHpA | 375-85-9 | 68484.60 | D | 7500.00 | 86 | | 48 | 136 | 55.5 | N | ≤ 30 |
| PFOA | 335-67-1 | 111661.30 | D | 7500.00 | 231 | N | 49 | 141 | 15.6 | | ≤ 30 |
| PFNA | 375-95-1 | 7843.31 | | 7500.00 | 97 | | 58 | 122 | 9.8 | | ≤ 30 |
| PFDA | 335-76-2 | 7284.09 | | 7500.00 | 97 | | 59 | 135 | 2.1 | | ≤ 30 |
| PFUnA | 2058-94-8 | 6984.67 | | 7500.00 | 93 | | 64 | 134 | 1.1 | | ≤ 30 |
| PFDoA | 307-55-1 | 6500.77 | | 7500.00 | 87 | | 75 | 131 | 2.3 | | ≤ 30 |
| PFTrDA | 72629-94-8 | 7429.68 | | 7500.00 | 99 | | 42 | 148 | 6.3 | | ≤ 30 |
| PFTeDA | 376-06-7 | 7044.49 | | 7500.00 | 94 | | 42 | 158 | 2.2 | | ≤ 30 |
| NMeFOSAA | 2355-31-9 | 6687.73 | D | 7500.00 | 89 | | 50 | 146 | 3.4 | | ≤ 30 |
| NEtFOSAA | 2991-50-6 | 8145.93 | | 7500.00 | 109 | | 51 | 131 | 21.3 | | ≤ 30 |
| PFBS | 375-73-5 | 461552.87 | D | 7575.00 | 768 | N | 56 | 134 | 10.6 | | ≤ 30 |
| PFHxS | 355-46-4 | 1726119.11 | D | 7575.00 | 3278 | N | 52 | 128 | 65.0 | N | ≤ 30 |
| PFOS | 1763-23-1 | 493434.99 | D | 7500.00 | 0 | N | 40 | 144 | 0.0 | | ≤ 30 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 127 | D |
| 13C4-PFHpA | 114 | D |
| 13C8-PFOA | 122 | D |
| 13C9-PFNA | 107 | D |
| 13C6-PFDA | 103 | |
| 13C7-PFUnA | 108 | |
| 13C2-PFDoA | 119 | |
| 13C2-PFTeDA | 104 | |
| d3-MeFOSAA | 118 | D |
| d5-EtFOSAA | 141 | |
| 13C3-PFBS | 122 | D |
| 13C3-PFHxS | 120 | D |
| 13C8-PFOS | 128 | D |

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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 highers concentration level in the calibration |
| H | Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract. |
| J | Analyte detected below the Limit of Quantitation (LOQ) |
| ME | Significant Matrix Interference - Estimated value. |
| MI | Significant Matrix Interference - value could not be determined. |
| n | Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria |
| 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 Method detection limit (MDL) value, Limit of Detection (LOD) reported |

# CTO-4164 Naval Base Ventura County, California
# Project No 100110125-01
# PFAS by DoD QSM 5.1 Table B-15

*AQ, GW*

*Batch 18-0580*

*Package DP-18-0285*

Submitted to:
CH2M
1100 NE Circle Blvd Suite 300
Corvallis, OR 97330 USA

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

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# CTO-4164 Naval Base Ventura County, California
# Project No 100110125-01
# PFAS by DoD QSM 5.1 Table B-15

*AQ, GW*

*Batch 18-0580*

*Package DP-18-0285*

Submitted to:
CH2M
1100 NE Circle Blvd Suite 300
Corvallis, OR 97330 USA

NELAP Accreditation Number: E87856 (Florida Department of Health)
DoD-ELAP Accreditation Number: 91667

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

Analyst Approval: Lauren Griffith 2018.10.22 13:54:00 -04'00'

QC Chemist Approval: fitche@battelle.org 2018.10.23 15:58:44 -04'00'

Project Manager Approval: Digitally signed by Jonathan Thorn Date: 2018.10.23 16:23:03 -04'00'

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# CTO-4164 Naval Base Ventura County, California
# Project No 100110125-01
# PFAS by DoD QSM 5.1 Table B-15

*AQ, GW*

*Batch 18-0580*

*Package DP-18-0285*


| | | |
|---|---|---|
| 1 | ***Work Plan***<br>Laboratory Work Plan, Addendums To Work Plan, Memos From Project Manager, Special Instructions, Chain-of-Custody Reports. | 1 |
| 2 | ***Tables***<br>Analytical Data Tables, Qualifier Definitions. | 30 |
| 3 | ***Miscellaneous Documentation***<br>Case Narrative, Miscellaneous Documentation Form, Quality Control Summary, Example Calculations, Internal Standard Recovery Report, Retention Time Window Report. | 58 |
| 4 | ***Sample Preparation Records***<br>Sample Preparation Records, Dilution Worksheets, Standard Preparation Records, Certificates Of Analysis, GPC Check Report. | 225 |
| 5 | ***Analytical Calibrations***<br>Analytical Sequence, Analytical Method, Tune Report, Initial Calibration, Pesticide Degradation Report, RF Summary, Calibration Verifications, Independent Calibration Verification Check. | 259 |
| 6 | ***Analytical Data***<br>Raw Data Quantification Reports. | 661 |
| 7 | ***Chromatograms***<br>Sample And Standard Chromatograms. | 1047 |
| 8 | ***Unused Data*** | 1605 |


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**Signature Page**

Battelle 2018 (1 of 2)
Signature Page

| Name (Printed) | Signature | Initials | Date |
|---|---|---|---|
| Jonathan Thorn | | JRT | 4/4/2018 |
| Robert Lizotte, Jr. | | BL | 4.4 2018 |
| FRANCO PALA | | | 4-4-2018 |
| Carla Devine | | CRD | 4/4/18 |
| Denise Schumitz | | DMS | 4/4/18 |
| Candice Penn McCoy | | CPM | 4/4/2018 |
| Rich Rostucci | | RR | 4/4/2018 |
| Michael Mears | | | 4/4/2018 |
| Christie Usher | | cu | 4/4/18 |
| Kevin McInerney | | | 4/4/18 |
| Stephanie Schultz | | SAS | 4/4/18 |
| Jordan Tower | | JCT | 4/4/18 |
| KRISTEN NICHOLS | | KN | 4/4/18 |
| Clinton H Brown | | CB | 4/4/18 |
| Matt Schumitz | | MS | 4-4-18 |
| Sam Guimaraes | | SG | 4-4-18 |
| Lauren Griffith | | LMG | 4.4.18 |

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**Signature Page**

Battelle 2018 (2 of 2)
Signature Page

| Name (Printed) | Signature | Initials | Date |
|---|---|---|---|
| KAVITHA DASU | | KD | 04/04/18 |
| Kayla Lamarre | | KAL | 04/04/18 |
| Weidong Li | | W.L | 04/04/18 |
| Tracy W Stenner | | TWS | 04/04/18 |
| Ellyn M Fitch | | EMF | 12-April-2018 |
| Gail DeRuzzo | | GD | 4/18/18 |
| Zachary Willenberg | | ZJW | 4/20/18 |
| | | | |
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| | | | |
| | | | |

Sample Summary

Client: CH2M
SDG: 18-0580
Project/Site: Naval Base Ventura County
CTO: 4164

| Lab Sample ID | Client Sample ID | Matrix | Collection Date | Receipt Date |
|---|---|---|---|---|
| CR884PB-FS | Procedural Blank | WATER | 9/28/2018 | 9/28/2018 |
| CR885LCS-FS | Laboratory Control Sample | WATER | 9/28/2018 | 9/28/2018 |
| J8285-FS | VC-CS94-DW01-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8286-FS | VC-CS94-DW01P-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8287-FS | VC-CS94-DW02-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8288-FS | VC-CS94-DW03-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8289-FS | VC-CS94-DW04-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8290-FS | VC-CS94-DW05-0918 | GW | 9/21/2018 | 9/25/2018 |
| J8308-FS | VC-SO-FB04-092118 | AQ | 9/21/2018 | 9/25/2018 |
| J8309-FS | VC-SO-EB04-092118 | AQ | 9/21/2018 | 9/25/2018 |
| J8319-FS | VC-PM323-324-DW01-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8320-FS | VC-PM323-324-DW01P-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8321-FS | VC-PM323-324-DW02-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8322-FS | VC-PM323-324-DW03-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8323-FS | VC-AQ-FB03-092018 | AQ | 9/20/2018 | 9/25/2018 |
| J8324-FS | VC-AQ-EB03-092018 | AQ | 9/20/2018 | 9/25/2018 |
| J8325MS-FS | VC-PM323-324-DW02-0918-MS | SB | 9/20/2018 | 9/25/2018 |
| J8326MSD-FS | VC-PM323-324-DW02-0918-MSD | SB | 9/20/2018 | 9/25/2018 |
| J8330-FS | VC-PM323-DW02-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8331-FS | VC-PM323-DW02P-0918 | GW | 9/20/2018 | 9/25/2018 |
| J8337-FS | VC-PM324-DW02-0918 | GW | 9/20/2018 | 9/25/2018 |

# Work Plan

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## 1.0 GENERAL PROJECT INFORMATION

| | |
|---|---|
| **Project Title:** | CTO-4164: Analysis of Non-Potable Waters |
| **Project Number:** | 100110125-01 |
| **Client:** | CH2M<br>1100 NE Circle Blvd Suite 300<br>Corvallis, OR 97330<br>USA |
| **Client Contact Information:** | Tiffany Hill<br>Project Chemist<br>(541) 768-3109(V)<br>NA<br>tiffany.hill@jacobs.com |
| **Effective Date of QAPP:** | 9/11/2018 |
| **Version Number:** | 100110125-01(L)-02 |
| **Project Manager:** | Thorn, Jonathan |
| **Laboratory Task Manager:** | Thorn, Jonathan |
| **Deliverable Due Date:** | 10/19/2018 |

## 2.0 SCOPE OF WORK

| | |
|---|---|
| **Overview:** | Analysis of non-potable water samples 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 refrigerated. |
| **Sub_Sampling:** | None |
| ***Procedures:*** | NA |
| ***Contact:*** | NA |
| ***Comment:*** | None |
| **Archiving:** | Store remaining samples for six months after submission of final reports. Notify client prior to sample disposal. |
| **Disposal:** | Dispose of any remaining samples in the appropriate waste stream. |

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# WORK/QUALITY ASSURANCE PROJECT PLAN

### 2.1.2 Sample Preparation

Samples will be batched as they arrive, with a 28-day TAT from receipt of samples.

| Samples Expected: | Samples Per Batch: | Batches Expected: |
|---|---|---|
| 150 | 20 | 8 |

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 | Background for MS/MSD will be indicated on COC. |
| MSD | Spiked field sample for determining method accuracy and precision in the presence of matrix. | 1 per batch | -- | NA | Background for MS/MSD will be indicated on COC. |

### 2.1.3 Extraction/Preparation

#### *2.1.3.1 Extraction*

SOP No.-Rev: **5-370-06**

SOP Title: *Extraction of Poly and Perfluoroalkyl Substances from Environmental Matrices*

Sample Size: 250 ml

SIS and LCS/MS Compounds: Defined in Table 2.

Deviations:
- Do not split samples post extract, PIV adjusted to compensate for removal of split.

Comments:
- All waters will be pre-screened per draft SOP 5-370-07.

**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 Standards (SIS) | JY28 SIS | ~ 0.250 ng | 50 uL | NA |

| Standard Type | Standard Contents | | Spike Amount (ng) | Volume (uL) | Comment |
|---|---|---|---|---|---|
| PFAS - DoD Second Source LCS/MS Solution | JZ88 | LCS/MS | ~ 7.5 ng | 150 uL | MS/MSD only - vary spike by batch 100, 150, 200, 250, 300 µL (pre-screening data will indicate if background sample is high level and needs a higher level fortification). |
| PFAS - DoD Second Source LCS/MS Solution | JZ88 | LCS/MS | ~ 2.50 ng | 50 uL | LCS sample only - vary spike for each batch 50, 100, and 150 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 | JY26 | RIS | ~ 0.250 ng | 50 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: **5-369-06**

SOP_Title: *Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)*

Deviations: None

Comments: None

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## 2.2. DELIVERABLES

| | |
|---|---|
| **Deliverables Due:** | 10/19/2018 |
| **LIMS Reports:** | *No* |
| **Histograms:** | *No* |
| **Excel Tables:** | *Yes* |
| **EICs:** | *No* |
| **Chromatograms:** | *No* |
| **EDDs:** | *Yes* |
| **Comments:** | • Individual data sets will be due 28 days after receipt of each sample set.<br>• Full Level 4 data package (QSM 5.1 Table B-15 compliant) required.<br>• SEDD file required.<br>• weekly updates to client on status required. |

## 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 |
| Stephanie A. Schultz | Sample Preparation | NA |
| Denise M. Schumitz | 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 | 09/21/2018 | 09/21/2018 | 0 | Timeline provided is an example based on samples arriving on 9/21. Schedule will shift for each delivery. |
| Sample Preparation | 09/21/2018 | 09/25/2018 | 4 | NA |
| Instrument Analysis | 09/25/2018 | 10/05/2018 | 10 | NA |
| Quality Control Review | 10/05/2018 | 10/10/2018 | 5 | NA |
| Quality Assurance Review | 10/10/2018 | 10/15/2018 | 5 | 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 | 2 | 10 | 20 | Hours are based on batches of 20 samples. |
| Sample Preparation | 8 | 10 | 80 | NA |
| Instrument Analysis | 8 | 10 | 80 | NA |
| Quality Control Review | 3 | 10 | 30 | NA |
| Quality Assurance Review | 1 | 10 | 10 | NA |

## 7.0 STAFF DEVELOPMENT

None anticipated

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 1: Target Samples

**Shipment:** **SHP-180921-01**

**Status:** Pending

**Description:** NBVC Basewide SI

**Range:** J8210-J8277

**Comment:** NA

| No: | BDO Id: | Client Sample ID: | Collection Date: | Matrix: | Storage Facility: | Location: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|
| 1 | J8210 | VC-PM3009-DW01-0918 | 09/17/2018 3:10 pm | GW | R0119 (NA) | | | |
| 2 | J8211 | VC-PM3009-DW02-0918 | 09/17/2018 4:23 pm | GW | R0119 (NA) | | | |
| 3 | J8212 | VC-PM3009-DW02P-0918 | 09/17/2018 4:27 pm | GW | R0119 (NA) | | | |
| 4 | J8213 | VC-PM3009-DW03-0918 | 09/17/2018 4:38 pm | GW | R0119 (NA) | | | |
| 5 | J8214 | VC-PM372-DW01-0918 | 09/18/2018 10:07 am | GW | R0119 (NA) | | | |
| 6 | J8215 | VC-PM372-DW02-0918 | 09/18/2018 9:25 am | GW | R0119 (NA) | | | |
| 7 | J8216 | VC-PM372-DW02P-0918 | 09/18/2018 9:27 am | GW | R0119 (NA) | | | |
| 8 | J8217 | VC-PM372-DW03-0918 | 09/18/2018 11:49 am | GW | R0119 (NA) | | | |
| 9 | J8241 | VC-PM649-DW01-0918 | 09/18/2018 12:50 pm | GW | R0119 (NA) | | | |
| 10 | J8242 | VC-PM649-DW01P-0918 | 09/18/2018 12:55 pm | GW | R0119 (NA) | | | |
| 11 | J8243 | VC-PM649-DW02-0918 | 09/18/2018 3:35 pm | GW | R0119 (NA) | | | |
| 12 | J8244 | VC-PM649-DW03-0918 | 09/18/2018 2:02 pm | GW | R0119 (NA) | | | |
| 13 | J8245 | VC-PM649-DW04-0918 | 09/18/2018 2:02 pm | GW | R0119 (NA) | | | |
| 14 | J8246 | VC-AQ-FB01-0918 | 09/18/2018 1:30 pm | AQ | R0119 (NA) | | | |
| 15 | J8247 | VC-AQ-EB01-0918 | 09/18/2018 1:40 pm | AQ | R0119 (NA) | | | |
| 16 | J8259 | VC-PM365-DW01-0918 | 09/19/2018 11:10 am | GW | R0119 (NA) | | | |
| 17 | J8260 | VC-PM365-DW02-0918 | 09/19/2018 12:10 pm | GW | R0119 (NA) | | | |
| 18 | J8261 | VC-PM365-DW02P-0918 | 09/19/2018 12:18 pm | GW | R0119 (NA) | | | |
| 19 | J8262 | VC-PM365-DW03-0918 | 09/19/2018 11:10 am | GW | R0119 (NA) | | | |
| 20 | J8272 | VC-PM553-DW01-0918 | 09/19/2018 2:30 pm | GW | R0119 (NA) | | | |
| 21 | J8273 | VC-PM553-DW01P-0918 | 09/19/2018 2:45 pm | GW | R0119 (NA) | | | |
| 22 | J8274 | VC-PM553-DW02-0918 | 09/19/2018 3:15 pm | GW | R0119 (NA) | | | |
| 23 | J8275 | VC-PM553-DW03-0918 | 09/19/2018 12:06 pm | GW | R0119 (NA) | | | |
| 24 | J8276 | VC-SO-FB02-0919 | 09/19/2018 2:35 pm | AQ | R0119 (NA) | | | |
| 25 | J8277 | VC-SO-EB02-0918 | 09/19/2018 2:30 pm | AQ | R0119 (NA) | | | |

**Shipment:** **SHP-180925-02**

**Status:** Approved

**Description:** NBVC Basewide SI

**Range:** J8285-J8337

**Comment:** NA

| No: | BDO Id: | Client Sample ID: | Collection Date: | Matrix: | Storage Facility: | Location: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|
| 1 | J8285 | VC-CS94-DW01-0918 | 09/21/2018 10:54 am | GW | R0119 (NA) | | | |
| 2 | J8286 | VC-CS94-DW01P-0918 | 09/21/2018 10:58 am | GW | R0119 (NA) | | | |
| 3 | J8287 | VC-CS94-DW02-0918 | 09/21/2018 11:50 am | GW | R0119 (NA) | | | |
| 4 | J8288 | VC-CS94-DW03-0918 | 09/21/2018 11:08 am | GW | R0119 (NA) | | | |
| 5 | J8289 | VC-CS94-DW04-0918 | 09/21/2018 12:14 pm | GW | R0119 (NA) | | | |
| 6 | J8290 | VC-CS94-DW05-0918 | 09/21/2018 12:23 pm | GW | R0119 (NA) | | | |
| 7 | J8308 | VC-SO-FB04-092118 | 09/21/2018 2:20 pm | AQ | R0119 (NA) | | | |

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It can be done

# WORK/QUALITY ASSURANCE PROJECT PLAN

**Shipment:** **SHP-180925-02**

**Status:** Approved

**Description:** NBVC Basewide SI

**Range:** J8285-J8337

**Comment:** NA

| No: | BDO Id: | Client Sample ID: | Collection Date: | Matrix: | Storage Facility: | Location: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|
| 8 | J8309 | VC-SO-EB04-092118 | 09/21/2018 2:20 pm | AQ | R0119 (NA) | | | |
| 9 | J8319 | VC-PM323-324-DW01-0918 | 09/20/2018 2:38 pm | GW | R0119 (NA) | | | |
| 10 | J8320 | VC-PM323-324-DW01P-0918 | 09/20/2018 2:45 pm | GW | R0119 (NA) | | | |
| 11 | J8321 | VC-PM323-324-DW02-0918 | 09/20/2018 11:41 am | GW | R0119 (NA) | | | |
| 12 | J8322 | VC-PM323-324-DW03-0918 | 09/20/2018 10:35 am | GW | R0119 (NA) | | | |
| 13 | J8323 | VC-AQ-FB03-092018 | 09/20/2018 8:00 am | AQ | R0119 (NA) | | | |
| 14 | J8324 | VC-AQ-EB03-092018 | 09/20/2018 8:00 am | AQ | R0119 (NA) | | | |
| 15 | J8330 | VC-PM323-DW02-0918 | 09/20/2018 3:13 pm | GW | R0119 (NA) | | | |
| 16 | J8331 | VC-PM323-DW02P-0918 | 09/20/2018 4:02 pm | GW | R0119 (NA) | | | |
| 17 | J8337 | VC-PM324-DW02-0918 | 09/20/2018 2:00 pm | GW | R0119 (NA) | | | |

**Shipment:** **SHP-180927-02**

**Status:** Pending

**Description:** NBVC Basewide SI

**Range:** J8358-J8400

**Comment:** NA

| No: | BDO Id: | Client Sample ID: | Collection Date: | Matrix: | Storage Facility: | Location: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|
| 1 | J8358 | VC-PM323-DW01-0918 | 09/24/2018 10:21 am | GW | R0119 (NA) | | | |
| 2 | J8359 | VC-PM323-DW03-0918 | 09/24/2018 11:10 am | GW | R0119 (NA) | | | |
| 3 | J8368 | VC-SO-FB05-092418 | 09/24/2018 1:30 pm | AQ | R0119 (NA) | | | |
| 4 | J8369 | VC-SO-EB05-092418 | 09/24/2018 1:30 pm | AQ | R0119 (NA) | | | |
| 5 | J8370 | VC-PM324-DW01-0918 | 09/24/2018 1:45 pm | GW | R0119 (NA) | | | |
| 6 | J8371 | VC-PM324-DW01P-0918 | 09/24/2018 2:02 pm | GW | R0119 (NA) | | | |
| 7 | J8372 | VC-PM324-DW03-0918 | 09/24/2018 11:15 am | GW | R0119 (NA) | | | |
| 8 | J8382 | VC-PM64B-DW01-0918 | 09/24/2018 3:00 pm | GW | R0119 (NA) | | | |
| 9 | J8383 | VC-PM64B-DW02-0918 | 09/24/2018 3:31 pm | GW | R0119 (NA) | | | |
| 10 | J8384 | VC-PM64B-DW03-0918 | 09/24/2018 2:28 pm | GW | R0119 (NA) | | | |
| 11 | J8385 | VC-PM64B-DW03P-0918 | 09/24/2018 2:35 pm | GW | R0119 (NA) | | | |
| 12 | J8395 | VC-HS09-DW01-0918 | 09/25/2018 2:25 pm | GW | R0119 (NA) | | | |
| 13 | J8396 | VC-HS09-DW02-0918 | 09/25/2018 3:03 pm | GW | R0119 (NA) | | | |
| 14 | J8397 | VC-HS09-DW03-0918 | 09/25/2018 1:19 pm | GW | R0119 (NA) | | | |
| 15 | J8398 | VC-AQ-FB-092518 | 09/25/2018 2:35 pm | AQ | R0119 (NA) | | | |
| 16 | J8399 | VC-AQ-EB-092518 | 09/25/2018 2:30 pm | AQ | R0119 (NA) | | | |
| 17 | J8400 | VC-HS09-DW03P-0918 | 09/25/2018 1:56 pm | GW | R0119 (NA) | | | |

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# WORK/QUALITY ASSURANCE PROJECT PLAN

**Shipment:** **SHP-180928-03**

**Status:** Pending

**Description:** NBVC Basewide SI

**Range:** J8455-J8483

**Comment:** NA

| No: | BDO Id: | Client Sample ID: | Collection Date: | Matrix: | Storage Facility: | Location: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|
| 1 | J8455 | VC-SO-FB07-09262018 | 09/26/2018 11:43 am | AQ | R0118 (NA) | | | |
| 2 | J8456 | VC-SO-EB07-09262018 | 09/26/2018 11:45 am | AQ | R0118 (NA) | | | |
| 3 | J8457 | VC-MS09-DW01-0918 | 09/26/2018 10:16 am | GW | R0118 (NA) | | | |
| 4 | J8458 | VC-MS09-DW02-0918 | 09/26/2018 10:05 am | GW | R0118 (NA) | | | |
| 5 | J8459 | VC-MS09-DW03-0918 | 09/26/2018 11:10 am | GW | R0118 (NA) | | | |
| 6 | J8460 | VC-MS09-DW04-0918 | 09/26/2018 12:22 pm | GW | R0118 (NA) | | | |
| 7 | J8461 | VC-MS09-DW04P-0918 | 09/26/2018 12:20 pm | GW | R0118 (NA) | | | |
| 8 | J8462 | VC-MS09-DW05-0918 | 09/26/2018 11:35 am | GW | R0118 (NA) | | | |
| 9 | J8477 | VC-PM367-DW01-0918 | 09/27/2018 10:36 am | GW | R0119 (NA) | | | |
| 10 | J8478 | VC-PM367-DW02-0918 | 09/27/2018 9:50 am | GW | R0119 (NA) | | | |
| 11 | J8479 | VC-PM367-DW03-0918 | 09/27/2018 10:43 am | GW | R0119 (NA) | | | |
| 12 | J8480 | VC-PM367-DW03P-0918 | 09/27/2018 10:46 am | GW | R0119 (NA) | | | |
| 13 | J8481 | VC-PM367-DW04-0918 | 09/27/2018 10:04 am | GW | R0119 (NA) | | | |
| 14 | J8482 | VC-AQ-FB08-09272018 | 09/27/2018 10:00 am | AQ | R0119 (NA) | | | |
| 15 | J8483 | VC-AQ-EB08-09272018 | 09/27/2018 12:00 pm | AQ | R0119 (NA) | | | |

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 2: Test Codes

| | |
|---|---|
| **Project Test Code Name:** | Master_369 |
| **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 5.1 Table B-15 |
| **Matrix:** | L - Liquid Samples, like water or sea water, prepared and anlyzed 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 Substition:*** | U-Flag=MD | ***Histograms:*** | No | | | ***HT_Flag:*** | T |
| ***ECD_Reporting:*** | No | | | | | | |

| No: | Analyte: | Report Name: | Type | RIS | SIS | Hidden: | Graph: |
|---|---|---|---|---|---|---|---|
| 1 | Perfluoro-n-hexanoic acid | PFHxA | T | | 13C5-PFHxA | No | No |
| 2 | Perfluoro-n-heptanoic Acid | PFHpA | T | | 13C4-PFHpA | No | No |
| 3 | Perfluoro-n-octanoic Acid | PFOA | T | | 13C8-PFOA | No | No |
| 4 | Perfluorononanoic Acid | PFNA | T | | 13C9-PFNA | No | No |
| 5 | Perfluoro-n-decanoic Acid | PFDA | T | | 13C6-PFDA | No | No |
| 6 | Perfluoro-n-undecanoic acid | PFUnA | T | | 13C7-PFUnA | No | No |
| 7 | Perfluoro-n-dodecanoic acid | PFDoA | T | | 13C2-PFDoA | No | No |
| 8 | Perfluoro-n-tridecanoic acid | PFTrDA | T | | 13C2-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-butanesulfonate | 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 |
| 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 |

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 2: Test Codes

**Project Test Code Name:** Master_369

| No: | Analyte: | Report Name: | Type | RIS | SIS | Hidden: | Graph: |
|---|---|---|---|---|---|---|---|
| 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 |

**Total Analytes:** 27

**Subtract Peaks:**

None

**Sum Peaks:**

None

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 2: Test Codes

**Project Test Code Name:** Master_369

**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***

**Degredation Check Criteria:**

***None***

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 3: Method Quality Objectives

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

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# WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 3: Method Quality Objectives

| **MQO Application** | ***Universal_LC*** | | |
|---|---|---|---|
| **MQO:** | **Acceptance Criteria** | **Qual:** | **Corrective Action:** |
| Analytical Triplicate Precision | Organics results less than 30% Relative Standard Deviation (RSD). Analyte concentration must be > 5x MDL. | N | Review with Project Manager; re-analyze or justify reporting results in the project records. |
| | Organics Results in the Original is less than 5 times the MDL | n | |
| 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 | 5-369-6: 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 | 5-369-6: 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 | 5-369-6: 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. |

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**ShpNo** SHP-180925-02

**Battelle Project No:** 0110125-01

# Sample Receipt Form

**Approved:** ☑ **Authorized** ☐

**Project Number:** 695803 **Client:** CH2M

**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, September 25, 2018 1:00 PM

**No. of Shipping Containers:** 2

## *SHIPMENT*

**Method of Delivery:** Commercial Carrier **Tracking Number:** Fed Ex

**COC Forms:** ☑ **Shipped with samples** ☐ **No Forms**

## *Cooler(s)/Box(es)*

| Cntr | Type | Tracking No. | Seal | Seal | Container | Therm. | Temp C | Smps |
|---|---|---|---|---|---|---|---|---|
| 1 of 2 | Cooler | 7829 0673 4525 | Custody Seals | Intact | Intact | Therm_1 | 0.9 | 25 |
| 2 of 2 | Cooler | 7829 0673 4536 | Custody Seals | Intact | Intact | Therm_1 | 1.1 | 28 |

## *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):** 1.1 Temperature Blank used ☑ Yes ☐ No
*(Note: If temperature upon receipt differs from required conditions, see sample log comment field)*

**Samples Acidified:** ☐ Yes ☐ No ☑ Unknown

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

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

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

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

**Storage Location:** Custody: Refrigerator - R0119 (NA) **BDO IDs Assigned:** J8285 - J8337

**Samples logged in by:** Schumitz, Matt **Date/Time:** 09/25/2018 1:00 PM

**Approved By:** Fitch, Ellyn **Approved On:** 10/1/2018 12:08:00 PM

**Authorized By:** **Authorized On:**

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**ShpNo:** SHP-180925-02

**Battelle Project No:** 0110125-01

## Report Corrective Actions

**Corrective Action No:** 1 **of** 1

Authorized ☐ Approved: ☐

**COC Client:** CH2M
**COC Project:** NBVC Basewide SI
**COC Date:** 9/25/2018 2:11:0

| | Description of Problem: | Explanation: |
|---|---|---|
| Client Id | Jars and C-O-C do not have matching Ids | It appears as though the blanks were mixed up when labeling them with the field ID.<br>COC<br>FDT-SO-FB04-092118 (J8308)<br>FDT-SO-EB04-092118 (J8309)<br>FDT-AQ-FB03-092018 (J8323)<br>FDT-AQ-EB03-092018 (J8324)<br>Labels<br>FDT-AQ-FB04-092118 (J8308)<br>FDT-SO-EB04-092118 (J8309)<br>FDT-SO-FB03-092018 (J8323)<br>FDT-SO-EB03-092018 (J8324) |

**Documentation of project manager notification**

**Sample Custodian** Schumitz, Matt **Date:** 9/25/2018 4:21:00 PM

**Laboratory Manager:** Thorn, Jonathan **Date:** 10/1/2018 11:57:00 A

**Project Manager:** Thorn, Jonathan **Date:** 10/1/2018 11:57:00 A

**Documentation of client notification (should be completed by project manager within 24 hrs):**

**On** 25-Sep-18 **I contacted** Hill, Tiffany **at** CH2M

**Results of communication with client (Describe any corrective action directed by the client):**

Updated sample IDs sent from client, included with original custody records.

**Date this form was received back to the custodian:** _____

**Reference Number:** _____

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**ShpNo** SHP-180925-02

**Battelle Project No:** 0110125-01

# Sample Receipt Form Details

**Approved:** ☐ **Authorized** ☐

**Project Number:** 695803 **Client:** CH2M

**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, September 25, 2018 1:00 PM

**No. of Shipping Containers:** 2

| BDO Id: | Client Sample ID: | Collection Date: | Login Date: | Ctrs: | Matrix: | Temp: | pH: | TRC: | VOC: | Stored In: | Loc: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J8285 | VC-CS94-DW01-0918 | 09/21/18 10:54 | 09/25/18 14:16 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8286 | VC-CS94-DW01P-0918 | 09/21/18 10:58 | 09/25/18 14:16 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8287 | VC-CS94-DW02-0918 | 09/21/18 11:50 | 09/25/18 14:17 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8288 | VC-CS94-DW03-0918 | 09/21/18 11:08 | 09/25/18 14:17 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8289 | VC-CS94-DW04-0918 | 09/21/18 12:14 | 09/25/18 14:17 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8290 | VC-CS94-DW05-0918 | 09/21/18 12:23 | 09/25/18 14:18 | 2 | GW | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8291 | VC-CS94-SS01-000H | 09/21/18 10:30 | 09/25/18 14:18 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8292 | VC-CS94-SB01-0102 | 09/21/18 10:33 | 09/25/18 14:19 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8293 | VC-CS94-SB01-0506 | 09/21/18 10:37 | 09/25/18 14:20 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8294 | VC-CS94-SS02-000H | 09/21/18 11:24 | 09/25/18 14:20 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8295 | VC-CS94-SB02-0102 | 09/21/18 11:25 | 09/25/18 14:20 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8296 | VC-CS94-SB02-0506 | 09/21/18 11:33 | 09/25/18 14:21 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8297 | VC-CS94-SS03-000H | 09/21/18 10:37 | 09/25/18 14:21 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8298 | VC-CS94-SB03-0102 | 09/21/18 10:38 | 09/25/18 14:21 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8299 | VC-CS94-SB03-0506 | 09/21/18 10:41 | 09/25/18 14:22 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8300 | VC-CS94-SS04-000H | 09/21/18 11:57 | 09/25/18 14:22 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8301 | VC-CS94-SB04-0102 | 09/21/18 11:58 | 09/25/18 14:22 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8302 | VC-CS94-SB04-0506 | 09/21/18 12:04 | 09/25/18 14:23 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8303 | VC-CS94-SS05-000H | 09/21/18 12:04 | 09/25/18 14:24 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8304 | VC-CS94-SB05-0102 | 09/21/18 12:05 | 09/25/18 14:24 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8305 | VC-CS94-SB05-0506 | 09/21/18 12:10 | 09/25/18 14:24 | 1 | SB | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8306 | VC-CS94-SS04-000H-MS | 09/21/18 11:57 | 09/25/18 14:25 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8307 | VC-CS94-SS04-000H-MSD | 09/21/18 11:57 | 09/25/18 14:25 | 1 | SS | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8308 | VC-SO-FB04-092118 | 09/21/18 14:20 | 09/25/18 14:25 | 2 | AQ | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8309 | VC-SO-EB04-092118 | 09/21/18 14:20 | 09/25/18 14:26 | 2 | AQ | 0.9 | NA | NA | NA | R0119 (NA) | | | |
| J8310 | VC-PM323-324-SS01-000H | 09/20/18 13:52 | 09/25/18 14:27 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8311 | VC-PM323-324-SB01-0102 | 09/20/18 13:55 | 09/25/18 14:28 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8312 | VC-PM323-324-SB01-0506 | 09/20/18 14:10 | 09/25/18 14:28 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |

BATTELLE
It can be done

**ShpNo** SHP-180925-02

**Battelle Project No:** 0110125-01

## Sample Receipt Form Details

**Approved:** ☐ **Authorized** ☐

**Project Number:** 695803 **Client:** CH2M

**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, September 25, 2018 1:00 PM

**No. of Shipping Containers:** 2

| BDO Id: | Client Sample ID: | Collection Date: | Login Date: | Ctrs: | Matrix: | Temp: | pH: | TRC: | VOC: | Stored In: | Loc: | No: | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J8313 | VC-PM323-324-SS02-000H | 09/20/18 11:00 | 09/25/18 14:28 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8314 | VC-PM323-324-SB02-0102 | 09/20/18 11:05 | 09/25/18 14:29 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8315 | VC-PM323-324-SB02-0506 | 09/20/18 11:15 | 09/25/18 14:29 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8316 | VC-PM323-324-SS03-000H | 09/20/18 10:15 | 09/25/18 14:29 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8317 | VC-PM323-324-SB03-0102 | 09/20/18 10:17 | 09/25/18 14:30 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8318 | VC-PM323-324-SB03-0506 | 09/20/18 10:22 | 09/25/18 14:30 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8319 | VC-PM323-324-DW01-0918 | 09/20/18 14:38 | 09/25/18 14:31 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8320 | VC-PM323-324-DW01P-0918 | 09/20/18 14:45 | 09/25/18 14:32 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8321 | VC-PM323-324-DW02-0918 | 09/20/18 11:41 | 09/25/18 14:32 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8322 | VC-PM323-324-DW03-0918 | 09/20/18 10:35 | 09/25/18 14:32 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8323 | VC-AQ-FB03-092018 | 09/20/18 8:00 | 09/25/18 14:33 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8324 | VC-AQ-EB03-092018 | 09/20/18 8:00 | 09/25/18 14:33 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8325 | VC-PM323-324-DW02-0918-MS | 09/20/18 12:58 | 09/25/18 14:33 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8326 | VC-PM323-324-DW02-0918-MSD | 09/20/18 13:30 | 09/25/18 14:34 | 2 | AQ | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8327 | VC-PM323-SS02-000H | 09/20/18 14:43 | 09/25/18 14:38 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8328 | VC-PM323-SB02-0102 | 09/20/18 14:44 | 09/25/18 14:38 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8329 | VC-PM323-SB02-0506 | 09/20/18 14:48 | 09/25/18 14:38 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8330 | VC-PM323-DW02-0918 | 09/20/18 15:13 | 09/25/18 14:39 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8331 | VC-PM323-DW02P-0918 | 09/20/18 16:02 | 09/25/18 14:39 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8332 | VC-PM324-SS02-000H | 09/20/18 13:40 | 09/25/18 14:40 | 1 | SS | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8333 | VC-PM324-SB02-0102 | 09/20/18 13:45 | 09/25/18 14:40 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8334 | VC-PM324-SB02-0506 | 09/20/18 13:51 | 09/25/18 14:41 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8335 | VC-PM324-SB02-0506-MS | 09/20/18 13:51 | 09/25/18 14:41 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8336 | VC-PM324-SB02-0506-MSD | 09/20/18 13:51 | 09/25/18 14:41 | 1 | SB | 1.1 | NA | NA | NA | R0119 (NA) | | | |
| J8337 | VC-PM324-DW02-0918 | 09/20/18 14:00 | 09/25/18 14:42 | 2 | GW | 1.1 | NA | NA | NA | R0119 (NA) | | | |

**Total Samples:** 53

MEMORANDUM CH2MHILL

# Corrections to COCs

TO: Jonathan Thorn, Battelle

COPIES: File
Laboratory Package SDG: SHP 180925-02

FROM: Tiffany Hill
Project Chemist

DATE: September 25, 2018

This memo is to document corrections made to entries on the Chains of Custody (COC) and Logins for NB Ventura County, CTO-4164.

The corrections include changes to the sample IDs on the COC and Login:

| Sample ID on Login | Correct Sample ID | Date Collected | Time Collected | SDG |
|---|---|---|---|---|
| FDT-AQ-FB03-092018 | VC-AQ-FB03-092018 | 9/20/18 | 8:00 | SHP-180925-02 |
| FDT-AQ-EB03-092018 | VC-AQ-EB03-092018 | 9/20/18 | 8:00 | SHP-180925-02 |
| FDT-SO-FB04-092118 | VC-SO-FB04-092118 | 9/21/18 | 14:20 | SHP-180925-02 |
| FDT-SO-EB04-092118 | VC-SO-EB04-092118 | 9/21/18 | 14:20 | SHP-180925-02 |

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM CS94 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): Victoria Kilbert<br>Phone: 724-977-3625 victoria.kilbert@jacobs.com<br>Email: vlk8504@gmail.com<br>Turnaround Time (TAT) Requested: | | |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | Preservative: NA | Analysis: PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|---|
| VC-CS94-DW01-0918 J8285 | 9/21/18 | 1054 | AQ | GW | 2 | | X |
| VC-CS94-DW01P-0918 J8286 | 9/21/18 | 1058 | AQ | GW | 2 | | X |
| VC-CS94-DW02-0918 J8287 | 9/21/18 | 1150 | AQ | GW | 2 | | X |
| VC-CS94-DW03-0918 J8288 | 9/21/18 | 1108 | AQ | GW | 2 | | X |
| VC-CS94-DW04-0918 J8289 | 9/21/18 | 1214 | AQ | GW | 2 | | X |
| VC-CS94-DW05-0918 J8290 | 9/21/18 | 1223 | AQ | GW | 2 | | X |
| ~~FDT-AQ-FB~~ | | | ~~Grab~~ | ~~AQ~~ | | | X |
| ~~FDT-AQ-EB~~ | | | ~~Grab~~ | ~~AQ~~ | | | X |

COC # 2

Page# 1 of 9

VK

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 09/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

2

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM CS94 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI | Turnaround Time (TAT) Requested: Normal X, Priority ☐, RUSH ☐ | Analysis: PFAS by Method 537 Mod | Page# 2 of 9 |
| Project No.: 69583 | Time Zone: PST | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| VC-CS94-SS01-000H J8291 | 9/21/18 | 1030 | Grab | SS | 1 | X |
| VC-CS94-SB01-0102 92 | 9/21/18 | 1033 | Grab | SB | 1 | X |
| VC-CS94-SB01-0506 93 | 9/21/18 | 1037 | Grab | SB | 1 | X |
| VC-CS94-SS02-000H 94 | 9/21/18 | 1124 | Grab | SS | 1 | X |
| VC-CS94-SB02-0102 95 | 9/21/18 | 1125 | Grab | SB | 1 | X |
| VC-CS94-SB02-0506 96 | 9/21/18 | 1133 | Grab | SB | 1 | X |
| VC-CS94-SS03-000H 97 | 9/21/18 | 1037 | Grab | SS | 1 | X |
| VC-CS94-SB03-0102 98 | 9/21/18 | 1038 | Grab | SB | 1 | X |
| VC-CS94-SB03-0506 99 | 9/21/18 | 1041 | Grab | SB | 1 | X |
| VC-CS94-SS04-000H J8300 | 9/21/18 | 1157 | Grab | SS | 1 | X |
| VC-CS94-SB04-0102 J8301 | 9/21/18 | 1158 | Grab | SB | 1 | X |
| VC-CS94-SB04-0506 J8302 | 9/21/18 | 1204 | Grab | SB | 1 | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | NA | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE**
It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM CS94 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone:<br>Email: victoria.kilbert@jacobs.com<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 645803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 3 of 9 |

| | Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|---|
| J8305 | VC-CS94-SS05-000H | 9/21/18 | 1204 | Grab | SS | 1 | X |
| 04 | VC-CS94-SB05-0102 | 9/21/18 | 1205 | Grab | SB | 1 | X |
| 05 | VC-CS94-SB05-0506 | 9/21/18 | 1210 | Grab | SB | 1 | X |
| 06 | VC-CS94-SS04-000H-MS | 9/21/18 | 1157 | Grab | SS | 1 | X |
| 07 | VC-CS94-SS04-000H-MSD | 9/21/18 | 1157 | Grab | SS | 1 | X |
| 08 | FDT-SO-FB04-092118 | 9/21/18 | 1420 | Grab | AQ | 2 | X |
| J8309 | FDT-SO-EB04-092118 | 9/21/18 | 1420 | Grab | AQ | 2 | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|
| | | | |

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323-324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: victoria.kilbert@jacobs.com<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 4 of 9 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| VC-PM323-324-SS01-000H J8310 | 9/20/18 | 1352 | Grab | SS | 1 | X |
| VC-PM323-324-SB01-0102 11 | 9/20/18 | 1355 | Grab | SB | 1 | X |
| VC-PM323-324-SB01-0506 12 | 9/20/18 | 1410 | Grab | SB | 1 | X |
| VC-PM323-324-SS02-000H 13 | 9/20/18 | 1100 | Grab | SS | 1 | X |
| VC-PM323-324-SB02-0102 14 | 9/20/18 | 1105 | Grab | SB | 1 | X |
| VC-PM323-324-SB02-0506 15 | 9/20/18 | 1115 | Grab | SB | 1 | X |
| VC-PM323-324-SS03-000H 16 | 9/20/18 | 1015 | Grab | SS | 1 | X |
| VC-PM323-324-SB03-0102 17 | 9/20/18 | 1017 | Grab | SB | 1 | X |
| VC-PM323-324-SB03-0506 J8318 | 9/20/18 | 1022 | Grab | SB | 1 | X |
| ~~VC-PM323-324-SD01-000H~~ | | | ~~Grab~~ | ~~SD~~ | | X |
| ~~VC-PM323-324-SD01-0102~~ | | | ~~Grab~~ | ~~SD~~ | | X |
| ~~VC-PM323-324-S-MS~~ | | | ~~Grab~~ | | | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V Kilbert | Jacobs | 9/24/18 0733 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323-324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3625<br>Email:<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: EST | Analysis: PFAS by Method 537 Mod | Page# 5 of 9 |

| | Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod | |
|---|---|---|---|---|---|---|---|---|
| J8319 | VC-PM323-324-DW01-0918 | 9/20/18 | 1438 | Grab | GW | 2 | X | |
| 20 | VC-PM323-324-DW01P-0918 | 9/20/18 | 1445 | Grab | GW | 2 | X | |
| 21 | VC-PM323-324-DW02-0918 (VD) | 9/20/18 | 1141 | Grab | GW | 2 | X | |
| 22 | VC-PM323-324-DW03-0918 | 9/20/18 | 1035 | Grab | GW | 2 | X | |
| 23 | FDT-AQ-FB03-092018 | 9/21/18 | 0806 | Grab | AQ | 2 | X | |
| 24 | FDT-AQ-EB03-092018 | 9/21/18 | 0800 | Grab | AQ | 2 | X | |
| 25 | VC-PM323-324-DW02-0918-MS | 9/20/18 | 1258 | G-b | AQ | 2 | X | MS |
| J8326 | VC-PM323-324-DW02-0918-MSD | 9/20/18 | 1330 | G-b | AQ | 2 | X | MSD |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE** It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Turnaround Time (TAT) Requested:<br>Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 6 of 7 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | Analysis: PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| ~~VC-PM323-SS01-000H~~ | | | Grab | SS | | X |
| ~~VC-PM323-SB01-~~ | | | Grab | SB | | X |
| ~~VC-PM323-SB01-~~ | | | Grab | SB | | X |
| VC-PM323-SS02-000H J8327 | 9/20/18 | 1443 | Grab | SS | 1 | X |
| VC-PM323-SB02-0102 J8328 | 9/20/18 | 1444 | Grab | SB | 1 | X |
| VC-PM323-SB02-0506 J8329 | 9/20/18 | 1448 | Grab | SB | 1 | X |
| ~~VC-PM323-SS03-000H~~ | | | Grab | SS | | X |
| ~~VC-PM323-SB03-~~ | | | Grab | SB | | X |
| ~~VC-PM323-SB03-~~ | | | Grab | SB | | X |
| ~~VC-PM323-S- -MS~~ | | | Grab | | | X |
| ~~VC-PM323-S- -SD~~ | | | Grab | | | X |
| ~~FDT-SO-FB -~~ | | | Grab | AQ | | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign) | Company | Date/Time | Received by (Print/Sign) | Company | Date/Time |
|---|---|---|---|---|---|
| V. Kilbert | Tetra Tech | 09/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE**
It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 323 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: N/A | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Turnaround Time (TAT) Requested:<br>Normal X<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 7 of 9 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| ~~VC-PM323-DW01-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| VC-PM323-DW02-0918 J8330 | 9/20/18 | 1513 | Grab | GW | 2 | X |
| VC-PM323-DW02P-0918 J8331 | 9/20/18 | 1602 | Grab | GW | 2 | X |
| ~~VC-PM323-DW03-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| ~~FDT-AQ-EB~~ | | | ~~Grab~~ | ~~AQ~~ | | X |
| FDT-AQ-EB - | | | Grab | AQ | | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|
| | | | |

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1700 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

BATTELLE
It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM 324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone: 724-977-3628<br>Email: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI | Turnaround Time (TAT) Requested:<br>Normal ☒<br>Priority ☐<br>RUSH ☐ | Analysis: PFAS by Method 537 Mod | Page# 8 of 9 |
| Project No.: 695803 | Time Zone: PST | | |

| | Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|---|
| | ~~VC-PM324-SS01-000H~~ | | | ~~Grab~~ | ~~SS~~ | | X |
| | ~~VC-PM324-SB01-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| | ~~VC-PM324-SB01-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| J8332 | VC-PM324-SS02-000H | 9/20/18 | 1340 | Grab | SS | 1 | X |
| J8333 | VC-PM324-SB02-0102 | 9/20/18 | 1345 | Grab | SB | 1 | X |
| J8334 | VC-PM324-SB02-0506 | 9/20/18 | 1351 | Grab | SB | 1 | X |
| | ~~VC-PM324-SS03-000H~~ | | | ~~Grab~~ | ~~SS~~ | | X |
| | ~~VC-PM324-SB03-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| | ~~VC-PM324-SB03-~~ | | | ~~Grab~~ | ~~SB~~ | | X |
| J8335 | VC-PM324-~~SB0506~~ SB02-0506-MS | 9/20/18 | 1351 | Grab | SB | 1 | X |
| J8336 | VC-PM324-~~SB0506~~ SB02-0506-MSD | 9/20/18 | 1351 | Grab | SB | 1 | X |
| | FDT-SO-EB | | | Grab | AQ | | X |

| Receipt Temperature:(°C) | Samples Intact: Yes - No | Samples on Ice: Yes - No | Receipt Comments: |
|---|---|---|---|

| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
|---|---|---|---|---|---|
| V. Kilbert | Tetra Tech | 9/24/18 730 | | Battelle | 7-25-18 1700 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

**BATTELLE**
It can be done

# Chain-of-Custody

| Client Contact Information | Project Manager: Eric Davis | Sampling Site: PM324 | Site Information: |
|---|---|---|---|
| Tiffany Hill<br>1100 NE Circle Blvd, Suite 300<br>Corvallis, OR<br>97330 | Sampler Information (print name): V. Kilbert<br>Phone:<br>Email:<br>Turnaround Time (TAT) Requested: | Preservative: NA | COC # 2 |
| Project Name: NBVC Basewide SI<br>Project No.: 695803 | Normal ☒<br>Priority ☐<br>RUSH ☐<br>Time Zone: PST | Analysis: PFAS by Method 537 Mod | Page# 9 of 9 |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | Total # of Cont. | PFAS by Method 537 Mod |
|---|---|---|---|---|---|---|
| ~~VC-PM324-DW01-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| ~~VC-PM324-DW01P-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| J8337 VC-PM324-DW02-0918 | 9/20/18 | 1400 | Grab | GW | 8 | X |
| ~~VC-PM324-DW03-~~ | | | ~~Grab~~ | ~~GW~~ | | X |
| ~~FDT-AQ-FB-~~ | | | ~~Grab~~ | ~~AQ~~ | | X |
| ~~FDT-AQ-EB-~~ | | | ~~Grab~~ | ~~AQ~~ | | X |

*Receipt Temperature:(°C)* | *Samples Intact: Yes - No* | *Samples on Ice: Yes - No* | *Receipt Comments:*

| Relinquished by (Print/Sign) | Company | Date/Time | Received by (Print/Sign) | Company | Date/Time |
|---|---|---|---|---|---|
| V. Kilbert | Jacobs | 9/24/18 0730 | | Battelle | 9-25-18 1300 |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |
| Relinquished by (Print/Sign): | Company: | Date/Time: | Received by (Print/Sign): | Company: | Date/Time: |

Comments:

Do Not Lift Using This Tag
ORIGIN ID:OXRA (303) 929-1887
JACOBS ENGINEERING
PO# 695803
402 W BROADWAY STE 1450
SAN DIEGO, CA 92101
UNITED STATES US
SHIP DATE: 24SEP18
ACTWGT: 70.70 LB
CAD: 6997666/SSF01904
DIMS: 25x14x14 IN
BILL THIRD PARTY
TO BATTELLE LABS
C/O JONATHAN THORN
141 LONGWATER DR.
STE 202
NORWELL MA 02061
(781) 681-5565
REF:
INV:
PO:
DEPT:
0.9°
Therm 1
FedEx
Express
REL# 3785346
1 of 2
TRK# 0201 7829 0673 4525
## MASTER ##
NB XPUA
TUE - 25 SEP 10:
PRIORITY OVERNI
02
MA-US
RT 246 2 B
ST 11.2 10:30 4525 09.25

Do Not Lift Using This Tag
ORIGIN ID:OXRA (303) 929-1887
JACOBS ENGINEERING
PO# 695803
402 W BROADWAY STE 1450
SAN DIEGO, CA 92101
UNITED STATES US
SHIP DATE: 24SEP18
ACTWGT: 66.70 LB
CAD: 6997666/SSF01904
DIMS: 23x16x15 IN
BILL THIRD PARTY
TO BATTELLE LABS
C/O JONATHAN THORN
141 LONGWATER DR.
STE 202
NORWELL MA 02061
(781) 681-5565
REF:
INV:
PO:
DEPT:
1.1°
Therm-1
FedEx
Express
REL# 3785346
2 of 2
MPS# 0263 7829 0673 4536
Mstr# 7829 0673 4525
0201
NB XPUA
TUE - 25 SEP 10:30
PRIORITY OVERNIGHT
AHS
02061
MA-US BOS
RT 246 2 B
ST 11.2 10:30 4536 09.25

# Data Tables

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW01-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8285-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/05/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.270 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 799.96 | D | 4.40 | 11.57 | 115.74 |
| PFHpA | 375-85-9 | 67.65 | D | 1.48 | 4.63 | 46.30 |
| PFOA | 335-67-1 | 292.58 | D | 1.67 | 4.63 | 46.30 |
| PFNA | 375-95-1 | 3.27 | J | 0.24 | 0.93 | 4.63 |
| PFDA | 335-76-2 | 0.43 | J | 0.15 | 0.46 | 4.63 |
| PFUnA | 2058-94-8 | 0.93 | U | 0.27 | 0.93 | 4.63 |
| PFDoA | 307-55-1 | 0.46 | U | 0.17 | 0.46 | 4.63 |
| PFTrDA | 72629-94-8 | 0.46 | U | 0.14 | 0.46 | 4.63 |
| PFTeDA | 376-06-7 | 0.93 | U | 0.23 | 0.93 | 4.63 |
| NMeFOSAA | 2355-31-9 | 1.85 | U | 0.52 | 1.85 | 4.63 |
| NEtFOSAA | 2991-50-6 | 0.93 | U | 0.45 | 0.93 | 4.63 |
| PFBS | 375-73-5 | 188.33 | D | 1.20 | 4.63 | 46.30 |
| PFHxS | 355-46-4 | 2118.50 | D | 25.46 | 92.59 | 1157.41 |
| PFOS | 1763-23-1 | 8601.45 | D | 43.98 | 115.74 | 1157.41 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 119 | D | | | |
| 13C4-PFHpA | | 147 | D | | | |
| 13C8-PFOA | | 118 | D | | | |
| 13C9-PFNA | | 110 | D | | | |
| 13C6-PFDA | | 102 | | | | |
| 13C7-PFUnA | | 119 | | | | |
| 13C2-PFDoA | | 115 | | | | |
| 13C2-PFTeDA | | 99 | | | | |
| d3-MeFOSAA | | 134 | D | | | |
| d5-EtFOSAA | | 142 | D | | | |
| 13C3-PFBS | | 128 | D | | | |
| 13C3-PFHxS | | 110 | D | | | |
| 13C8-PFOS | | 131 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW01P-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8286-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.125 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 2900.34 | D | 19.00 | 50.00 | 500.00 |
| PFHpA | 375-85-9 | 254.57 | D | 1.60 | 5.00 | 50.00 |
| PFOA | 335-67-1 | 669.14 | D | 9.00 | 25.00 | 250.00 |
| PFNA | 375-95-1 | 11.96 | | 0.52 | 2.00 | 10.00 |
| PFDA | 335-76-2 | 1.52 | J | 0.32 | 1.00 | 10.00 |
| PFUnA | 2058-94-8 | 2.00 | U | 0.58 | 2.00 | 10.00 |
| PFDoA | 307-55-1 | 1.00 | U | 0.36 | 1.00 | 10.00 |
| PFTrDA | 72629-94-8 | 1.00 | U | 0.30 | 1.00 | 10.00 |
| PFTeDA | 376-06-7 | 2.00 | U | 0.50 | 2.00 | 10.00 |
| NMeFOSAA | 2355-31-9 | 4.00 | U | 1.12 | 4.00 | 10.00 |
| NEtFOSAA | 2991-50-6 | 2.00 | U | 0.98 | 2.00 | 10.00 |
| PFBS | 375-73-5 | 748.24 | D | 6.50 | 25.00 | 250.00 |
| PFHxS | 355-46-4 | 7650.20 | D | 55.00 | 200.00 | 2500.00 |
| PFOS | 1763-23-1 | 31190.47 | D | 475.00 | 1250.00 | 12500.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 131 | D | | | |
| 13C4-PFHpA | | 146 | D | | | |
| 13C8-PFOA | | 116 | D | | | |
| 13C9-PFNA | | 104 | D | | | |
| 13C6-PFDA | | 107 | | | | |
| 13C7-PFUnA | | 122 | | | | |
| 13C2-PFDoA | | 120 | | | | |
| 13C2-PFTeDA | | 102 | | | | |
| d3-MeFOSAA | | 111 | D | | | |
| d5-EtFOSAA | | 126 | D | | | |
| 13C3-PFBS | | 112 | D | | | |
| 13C3-PFHxS | | 147 | D | | | |
| 13C8-PFOS | | 121 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW02-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8287-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.275 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 295.83 | D | 10.80 | 28.41 | 284.09 |
| PFHpA | 375-85-9 | 38.23 | | 0.15 | 0.45 | 4.55 |
| PFOA | 335-67-1 | 167.19 | D | 0.82 | 2.27 | 22.73 |
| PFNA | 375-95-1 | 2.12 | J | 0.24 | 0.91 | 4.55 |
| PFDA | 335-76-2 | 0.27 | J | 0.15 | 0.45 | 4.55 |
| PFUnA | 2058-94-8 | 0.91 | U | 0.26 | 0.91 | 4.55 |
| PFDoA | 307-55-1 | 0.45 | U | 0.16 | 0.45 | 4.55 |
| PFTrDA | 72629-94-8 | 0.45 | U | 0.14 | 0.45 | 4.55 |
| PFTeDA | 376-06-7 | 0.91 | U | 0.23 | 0.91 | 4.55 |
| NMeFOSAA | 2355-31-9 | 1.82 | U | 0.51 | 1.82 | 4.55 |
| NEtFOSAA | 2991-50-6 | 0.91 | U | 0.45 | 0.91 | 4.55 |
| PFBS | 375-73-5 | 76.52 | D | 0.59 | 2.27 | 22.73 |
| PFHxS | 355-46-4 | 1115.91 | D | 6.25 | 22.73 | 284.09 |
| PFOS | 1763-23-1 | 4655.82 | D | 53.98 | 142.05 | 1420.45 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 127 | D | | | |
| 13C4-PFHpA | | 113 | | | | |
| 13C8-PFOA | | 109 | D | | | |
| 13C9-PFNA | | 110 | D | | | |
| 13C6-PFDA | | 119 | | | | |
| 13C7-PFUnA | | 130 | | | | |
| 13C2-PFDoA | | 119 | | | | |
| 13C2-PFTeDA | | 93 | | | | |
| d3-MeFOSAA | | 108 | D | | | |
| d5-EtFOSAA | | 130 | D | | | |
| 13C3-PFBS | | 140 | D | | | |
| 13C3-PFHxS | | 125 | D | | | |
| 13C8-PFOS | | 136 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW03-0918 | | | | |
| Battelle ID | | J8288-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.275 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 18.52 | | 0.17 | 0.45 | 4.55 |
| PFHpA | 375-85-9 | 9.10 | | 0.15 | 0.45 | 4.55 |
| PFOA | 335-67-1 | 67.75 | D | 0.82 | 2.27 | 22.73 |
| PFNA | 375-95-1 | 0.81 | J | 0.24 | 0.91 | 4.55 |
| PFDA | 335-76-2 | 0.45 | U | 0.15 | 0.45 | 4.55 |
| PFUnA | 2058-94-8 | 0.91 | U | 0.26 | 0.91 | 4.55 |
| PFDoA | 307-55-1 | 0.45 | U | 0.16 | 0.45 | 4.55 |
| PFTrDA | 72629-94-8 | 0.45 | U | 0.14 | 0.45 | 4.55 |
| PFTeDA | 376-06-7 | 0.91 | U | 0.23 | 0.91 | 4.55 |
| NMeFOSAA | 2355-31-9 | 1.82 | U | 0.51 | 1.82 | 4.55 |
| NEtFOSAA | 2991-50-6 | 0.91 | U | 0.45 | 0.91 | 4.55 |
| PFBS | 375-73-5 | 9.41 | | 0.12 | 0.45 | 4.55 |
| PFHxS | 355-46-4 | 64.30 | D | 0.50 | 1.82 | 22.73 |
| PFOS | 1763-23-1 | 65.69 | | 0.17 | 0.45 | 4.55 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 125 | |
| 13C4-PFHpA | 145 | |
| 13C8-PFOA | 124 | D |
| 13C9-PFNA | 110 | |
| 13C6-PFDA | 115 | |
| 13C7-PFUnA | 128 | |
| 13C2-PFDoA | 116 | |
| 13C2-PFTeDA | 103 | |
| d3-MeFOSAA | 96 | D |
| d5-EtFOSAA | 115 | D |
| 13C3-PFBS | 123 | |
| 13C3-PFHxS | 122 | D |
| 13C8-PFOS | 138 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW04-0918 | | | | |
| Battelle ID | | J8289-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.285 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 39.95 | | 0.17 | 0.44 | 4.39 |
| PFHpA | 375-85-9 | 26.25 | | 0.14 | 0.44 | 4.39 |
| PFOA | 335-67-1 | 835.09 | D | 3.95 | 10.96 | 109.65 |
| PFNA | 375-95-1 | 1.06 | J | 0.23 | 0.88 | 4.39 |
| PFDA | 335-76-2 | 0.44 | U | 0.14 | 0.44 | 4.39 |
| PFUnA | 2058-94-8 | 0.88 | U | 0.25 | 0.88 | 4.39 |
| PFDoA | 307-55-1 | 0.44 | U | 0.16 | 0.44 | 4.39 |
| PFTrDA | 72629-94-8 | 0.44 | U | 0.13 | 0.44 | 4.39 |
| PFTeDA | 376-06-7 | 0.88 | U | 0.22 | 0.88 | 4.39 |
| NMeFOSAA | 2355-31-9 | 1.75 | U | 0.49 | 1.75 | 4.39 |
| NEtFOSAA | 2991-50-6 | 0.88 | U | 0.43 | 0.88 | 4.39 |
| PFBS | 375-73-5 | 8.07 | | 0.11 | 0.44 | 4.39 |
| PFHxS | 355-46-4 | 46.10 | D | 0.48 | 1.75 | 21.93 |
| PFOS | 1763-23-1 | 51.45 | | 0.17 | 0.44 | 4.39 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 65 | |
| 13C4-PFHpA | 77 | |
| 13C8-PFOA | 128 | D |
| 13C9-PFNA | 62 | |
| 13C6-PFDA | 112 | |
| 13C7-PFUnA | 121 | |
| 13C2-PFDoA | 107 | |
| 13C2-PFTeDA | 74 | |
| d3-MeFOSAA | 149 | |
| d5-EtFOSAA | 150 | |
| 13C3-PFBS | 101 | |
| 13C3-PFHxS | 148 | D |
| 13C8-PFOS | 122 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW05-0918 | | | | |
| Battelle ID | | J8290-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.290 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 43.22 | | 0.16 | 0.43 | 4.31 |
| PFHpA | 375-85-9 | 4.46 | | 0.14 | 0.43 | 4.31 |
| PFOA | 335-67-1 | 33.13 | | 0.16 | 0.43 | 4.31 |
| PFNA | 375-95-1 | 2.53 | J | 0.22 | 0.86 | 4.31 |
| PFDA | 335-76-2 | 0.16 | J | 0.14 | 0.43 | 4.31 |
| PFUnA | 2058-94-8 | 0.86 | U | 0.25 | 0.86 | 4.31 |
| PFDoA | 307-55-1 | 0.43 | U | 0.16 | 0.43 | 4.31 |
| PFTrDA | 72629-94-8 | 0.43 | U | 0.13 | 0.43 | 4.31 |
| PFTeDA | 376-06-7 | 0.86 | U | 0.22 | 0.86 | 4.31 |
| NMeFOSAA | 2355-31-9 | 1.72 | U | 0.48 | 1.72 | 4.31 |
| NEtFOSAA | 2991-50-6 | 0.86 | U | 0.42 | 0.86 | 4.31 |
| PFBS | 375-73-5 | 9.28 | | 0.11 | 0.43 | 4.31 |
| PFHxS | 355-46-4 | 113.79 | D | 0.47 | 1.72 | 21.55 |
| PFOS | 1763-23-1 | 691.52 | D | 8.19 | 21.55 | 215.52 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 128 | |
| 13C4-PFHpA | 147 | |
| 13C8-PFOA | 101 | |
| 13C9-PFNA | 84 | |
| 13C6-PFDA | 105 | |
| 13C7-PFUnA | 123 | |
| 13C2-PFDoA | 117 | |
| 13C2-PFTeDA | 81 | |
| d3-MeFOSAA | 135 | |
| d5-EtFOSAA | 135 | D |
| 13C3-PFBS | 144 | D |
| 13C3-PFHxS | 149 | D |
| 13C8-PFOS | 129 | D |

BATTELLE
It can be done

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | |
|---|---|---|---|---|---|
| Client ID | | VC-SO-FB04-092118 | | | |
| Battelle ID | | J8308-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/21/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.265 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.47 U | 0.18 | 0.47 | 4.72 |
| PFHpA | 375-85-9 | 0.47 U | 0.15 | 0.47 | 4.72 |
| PFOA | 335-67-1 | 0.92 J | 0.17 | 0.47 | 4.72 |
| PFNA | 375-95-1 | 0.94 U | 0.25 | 0.94 | 4.72 |
| PFDA | 335-76-2 | 0.47 U | 0.15 | 0.47 | 4.72 |
| PFUnA | 2058-94-8 | 0.35 J | 0.27 | 0.94 | 4.72 |
| PFDoA | 307-55-1 | 0.46 J | 0.17 | 0.47 | 4.72 |
| PFTrDA | 72629-94-8 | 0.69 J | 0.14 | 0.47 | 4.72 |
| PFTeDA | 376-06-7 | 0.67 J | 0.24 | 0.94 | 4.72 |
| NMeFOSAA | 2355-31-9 | 1.89 U | 0.53 | 1.89 | 4.72 |
| NEtFOSAA | 2991-50-6 | 0.94 U | 0.46 | 0.94 | 4.72 |
| PFBS | 375-73-5 | 0.47 U | 0.12 | 0.47 | 4.72 |
| PFHxS | 355-46-4 | 0.38 U | 0.10 | 0.38 | 4.72 |
| PFOS | 1763-23-1 | 0.47 U | 0.18 | 0.47 | 4.72 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 121 |
| 13C4-PFHpA | 118 |
| 13C8-PFOA | 113 |
| 13C9-PFNA | 108 |
| 13C6-PFDA | 108 |
| 13C7-PFUnA | 122 |
| 13C2-PFDoA | 113 |
| 13C2-PFTeDA | 102 |
| d3-MeFOSAA | 105 |
| d5-EtFOSAA | 111 |
| 13C3-PFBS | 113 |
| 13C3-PFHxS | 121 |
| 13C8-PFOS | 143 |

BATTELLE
It can be done

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | |
|---|---|---|---|---|---|
| Client ID | | VC-SO-EB04-092118 | | | |
| Battelle ID | | J8309-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/21/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.260 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.48 U | 0.18 | 0.48 | 4.81 |
| PFHpA | 375-85-9 | 0.48 U | 0.15 | 0.48 | 4.81 |
| PFOA | 335-67-1 | 1.06 J | 0.17 | 0.48 | 4.81 |
| PFNA | 375-95-1 | 0.96 U | 0.25 | 0.96 | 4.81 |
| PFDA | 335-76-2 | 0.48 U | 0.15 | 0.48 | 4.81 |
| PFUnA | 2058-94-8 | 0.32 J | 0.28 | 0.96 | 4.81 |
| PFDoA | 307-55-1 | 0.38 J | 0.17 | 0.48 | 4.81 |
| PFTrDA | 72629-94-8 | 0.50 J | 0.14 | 0.48 | 4.81 |
| PFTeDA | 376-06-7 | 0.51 J | 0.24 | 0.96 | 4.81 |
| NMeFOSAA | 2355-31-9 | 1.92 U | 0.54 | 1.92 | 4.81 |
| NEtFOSAA | 2991-50-6 | 0.96 U | 0.47 | 0.96 | 4.81 |
| PFBS | 375-73-5 | 0.48 U | 0.13 | 0.48 | 4.81 |
| PFHxS | 355-46-4 | 0.38 U | 0.11 | 0.38 | 4.81 |
| PFOS | 1763-23-1 | 0.37 J | 0.18 | 0.48 | 4.81 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 119 |
| 13C4-PFHpA | 117 |
| 13C8-PFOA | 112 |
| 13C9-PFNA | 101 |
| 13C6-PFDA | 119 |
| 13C7-PFUnA | 119 |
| 13C2-PFDoA | 120 |
| 13C2-PFTeDA | 123 |
| d3-MeFOSAA | 123 |
| d5-EtFOSAA | 116 |
| 13C3-PFBS | 135 |
| 13C3-PFHxS | 128 |
| 13C8-PFOS | 133 |

BATTELLE
It can be done

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW01-0918 | | | | |
| Battelle ID | | J8319-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 290462.77 | D | 1187.50 | 3125.00 | 31250.00 |
| PFHpA | 375-85-9 | 37625.38 | D | 200.00 | 625.00 | 6250.00 |
| PFOA | 335-67-1 | 93975.76 | D | 1125.00 | 3125.00 | 31250.00 |
| PFNA | 375-95-1 | 1606.04 | | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 62.50 | U | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 192484.14 | D | 812.50 | 3125.00 | 31250.00 |
| PFHxS | 355-46-4 | 1829893.56 | D | 3437.50 | 12500.00 | 156250.00 |
| PFOS | 1763-23-1 | 2277022.98 | D | 29687.50 | 78125.00 | 781250.00 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 131 | D |
| 13C4-PFHpA | 128 | D |
| 13C8-PFOA | 125 | D |
| 13C9-PFNA | 113 | D |
| 13C6-PFDA | 109 | |
| 13C7-PFUnA | 117 | |
| 13C2-PFDoA | 106 | |
| 13C2-PFTeDA | 104 | |
| d3-MeFOSAA | 113 | D |
| d5-EtFOSAA | 133 | D |
| 13C3-PFBS | 125 | D |
| 13C3-PFHxS | 115 | D |
| 13C8-PFOS | 121 | D |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW01P-0918 | | | | |
| Battelle ID | | J8320-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 240605.51 | D | 1187.50 | 3125.00 | 31250.00 |
| PFHpA | 375-85-9 | 41198.27 | D | 250.00 | 781.25 | 7812.50 |
| PFOA | 335-67-1 | 84927.54 | D | 1125.00 | 3125.00 | 31250.00 |
| PFNA | 375-95-1 | 1691.83 | | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 93.88 | J | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 161646.30 | D | 812.50 | 3125.00 | 31250.00 |
| PFHxS | 355-46-4 | 1135491.62 | D | 13750.00 | 50000.00 | 625000.00 |
| PFOS | 1763-23-1 | 1859368.47 | D | 23750.00 | 62500.00 | 625000.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 137 | D | | | |
| 13C4-PFHpA | | 128 | D | | | |
| 13C8-PFOA | | 127 | D | | | |
| 13C9-PFNA | | 106 | D | | | |
| 13C6-PFDA | | 104 | | | | |
| 13C7-PFUnA | | 114 | | | | |
| 13C2-PFDoA | | 106 | | | | |
| 13C2-PFTeDA | | 98 | | | | |
| d3-MeFOSAA | | 88 | D | | | |
| d5-EtFOSAA | | 115 | D | | | |
| 13C3-PFBS | | 121 | D | | | |
| 13C3-PFHxS | | 132 | D | | | |
| 13C8-PFOS | | 120 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW02-0918 | | | | |
| Battelle ID | | J8321-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 533887.52 | D | 2968.75 | 7812.50 | 78125.00 |
| PFHpA | 375-85-9 | 62015.72 | D | 200.00 | 625.00 | 6250.00 |
| PFOA | 335-67-1 | 94310.25 | D | 562.50 | 1562.50 | 15625.00 |
| PFNA | 375-95-1 | 538.40 | J | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 62.50 | U | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 403376.78 | D | 2031.25 | 7812.50 | 78125.00 |
| PFHxS | 355-46-4 | 1477828.48 | D | 8593.75 | 31250.00 | 390625.00 |
| PFOS | 1763-23-1 | 652847.24 | D | 2968.75 | 7812.50 | 78125.00 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 120 | D |
| 13C4-PFHpA | 132 | D |
| 13C8-PFOA | 119 | D |
| 13C9-PFNA | 107 | D |
| 13C6-PFDA | 103 | |
| 13C7-PFUnA | 123 | |
| 13C2-PFDoA | 113 | |
| 13C2-PFTeDA | 95 | |
| d3-MeFOSAA | 118 | D |
| d5-EtFOSAA | 117 | D |
| 13C3-PFBS | 146 | D |
| 13C3-PFHxS | 123 | D |
| 13C8-PFOS | 144 | D |

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It can be done

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW03-0918 | | | | |
| Battelle ID | | J8322-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 3158327.03 | D | 98958.34 | 260416.69 | 2604166.88 |
| PFHpA | 375-85-9 | 490433.60 | D | 8333.34 | 26041.69 | 260416.88 |
| PFOA | 335-67-1 | 1071529.99 | D | 9375.01 | 26041.69 | 260416.88 |
| PFNA | 375-95-1 | 8063.63 | | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 546.37 | J | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 | U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 | U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 | U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 | U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 | U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 | U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 2034520.47 | D | 6770.84 | 26041.69 | 260416.88 |
| PFHxS | 355-46-4 | 12586869.28 | D | 57291.67 | 208333.35 | 2604166.88 |
| PFOS | 1763-23-1 | 13407957.09 | D | 98958.34 | 260416.69 | 2604166.88 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 124 | D | | | |
| 13C4-PFHpA | | 116 | D | | | |
| 13C8-PFOA | | 117 | D | | | |
| 13C9-PFNA | | 119 | D | | | |
| 13C6-PFDA | | 117 | | | | |
| 13C7-PFUnA | | 129 | | | | |
| 13C2-PFDoA | | 117 | | | | |
| 13C2-PFTeDA | | 106 | | | | |
| d3-MeFOSAA | | 113 | D | | | |
| d5-EtFOSAA | | 121 | D | | | |
| 13C3-PFBS | | 109 | D | | | |
| 13C3-PFHxS | | 120 | D | | | |
| 13C8-PFOS | | 125 | D | | | |

BATTELLE
It can be done

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | |
|---|---|---|---|---|---|
| Client ID | | VC-AQ-FB03-092018 | | | |
| Battelle ID | | J8323-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.270 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.46 U | 0.18 | 0.46 | 4.63 |
| PFHpA | 375-85-9 | 0.46 U | 0.15 | 0.46 | 4.63 |
| PFOA | 335-67-1 | 0.85 J | 0.17 | 0.46 | 4.63 |
| PFNA | 375-95-1 | 0.93 U | 0.24 | 0.93 | 4.63 |
| PFDA | 335-76-2 | 0.46 U | 0.15 | 0.46 | 4.63 |
| PFUnA | 2058-94-8 | 0.93 U | 0.27 | 0.93 | 4.63 |
| PFDoA | 307-55-1 | 0.18 J | 0.17 | 0.46 | 4.63 |
| PFTrDA | 72629-94-8 | 0.24 J | 0.14 | 0.46 | 4.63 |
| PFTeDA | 376-06-7 | 0.25 J | 0.23 | 0.93 | 4.63 |
| NMeFOSAA | 2355-31-9 | 1.85 U | 0.52 | 1.85 | 4.63 |
| NEtFOSAA | 2991-50-6 | 0.93 U | 0.45 | 0.93 | 4.63 |
| PFBS | 375-73-5 | 0.46 U | 0.12 | 0.46 | 4.63 |
| PFHxS | 355-46-4 | 0.37 U | 0.10 | 0.37 | 4.63 |
| PFOS | 1763-23-1 | 0.46 U | 0.18 | 0.46 | 4.63 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 111 |
| 13C4-PFHpA | 110 |
| 13C8-PFOA | 106 |
| 13C9-PFNA | 106 |
| 13C6-PFDA | 113 |
| 13C7-PFUnA | 116 |
| 13C2-PFDoA | 106 |
| 13C2-PFTeDA | 107 |
| d3-MeFOSAA | 100 |
| d5-EtFOSAA | 117 |
| 13C3-PFBS | 123 |
| 13C3-PFHxS | 129 |
| 13C8-PFOS | 138 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-AQ-EB03-092018 | | | | |
| Battelle ID | | J8324-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/05/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | AQ | | | | |
| Sample Size | | 0.210 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.60 | U | 0.23 | 0.60 | 5.95 |
| PFHpA | 375-85-9 | 0.60 | U | 0.19 | 0.60 | 5.95 |
| PFOA | 335-67-1 | 1.51 | J | 0.21 | 0.60 | 5.95 |
| PFNA | 375-95-1 | 1.19 | U | 0.31 | 1.19 | 5.95 |
| PFDA | 335-76-2 | 0.60 | U | 0.19 | 0.60 | 5.95 |
| PFUnA | 2058-94-8 | 1.19 | U | 0.35 | 1.19 | 5.95 |
| PFDoA | 307-55-1 | 0.60 | U | 0.21 | 0.60 | 5.95 |
| PFTrDA | 72629-94-8 | 0.19 | J | 0.18 | 0.60 | 5.95 |
| PFTeDA | 376-06-7 | 1.19 | U | 0.30 | 1.19 | 5.95 |
| NMeFOSAA | 2355-31-9 | 2.38 | U | 0.67 | 2.38 | 5.95 |
| NEtFOSAA | 2991-50-6 | 1.19 | U | 0.58 | 1.19 | 5.95 |
| PFBS | 375-73-5 | 0.60 | U | 0.15 | 0.60 | 5.95 |
| PFHxS | 355-46-4 | 0.32 | J | 0.13 | 0.48 | 5.95 |
| PFOS | 1763-23-1 | 15.13 | | 0.23 | 0.60 | 5.95 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 115 |
| 13C4-PFHpA | 114 |
| 13C8-PFOA | 108 |
| 13C9-PFNA | 108 |
| 13C6-PFDA | 126 |
| 13C7-PFUnA | 129 |
| 13C2-PFDoA | 121 |
| 13C2-PFTeDA | 130 |
| d3-MeFOSAA | 87 |
| d5-EtFOSAA | 105 |
| 13C3-PFBS | 107 |
| 13C3-PFHxS | 108 |
| 13C8-PFOS | 106 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-DW02-0918 | | | | |
| Battelle ID | | J8330-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.100 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 11894.21 | D | 197.92 | 520.83 | 5208.34 |
| PFHpA | 375-85-9 | 1440.83 | D | 10.00 | 31.25 | 312.50 |
| PFOA | 335-67-1 | 1817.08 | D | 11.25 | 31.25 | 312.50 |
| PFNA | 375-95-1 | 4.53 | J | 0.65 | 2.50 | 12.50 |
| PFDA | 335-76-2 | 1.25 | U | 0.40 | 1.25 | 12.50 |
| PFUnA | 2058-94-8 | 2.50 | U | 0.73 | 2.50 | 12.50 |
| PFDoA | 307-55-1 | 1.25 | U | 0.45 | 1.25 | 12.50 |
| PFTrDA | 72629-94-8 | 1.25 | U | 0.38 | 1.25 | 12.50 |
| PFTeDA | 376-06-7 | 2.50 | U | 0.63 | 2.50 | 12.50 |
| NMeFOSAA | 2355-31-9 | 5.00 | U | 1.40 | 5.00 | 12.50 |
| NEtFOSAA | 2991-50-6 | 2.50 | U | 1.23 | 2.50 | 12.50 |
| PFBS | 375-73-5 | 9969.22 | D | 135.42 | 520.83 | 5208.34 |
| PFHxS | 355-46-4 | 39703.31 | D | 114.58 | 416.67 | 5208.34 |
| PFOS | 1763-23-1 | 1980.13 | D | 11.88 | 31.25 | 312.50 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 118 | D | | | |
| 13C4-PFHpA | | 120 | D | | | |
| 13C8-PFOA | | 108 | D | | | |
| 13C9-PFNA | | 71 | | | | |
| 13C6-PFDA | | 120 | | | | |
| 13C7-PFUnA | | 122 | | | | |
| 13C2-PFDoA | | 111 | | | | |
| 13C2-PFTeDA | | 97 | | | | |
| d3-MeFOSAA | | 124 | | | | |
| d5-EtFOSAA | | 120 | D | | | |
| 13C3-PFBS | | 121 | D | | | |
| 13C3-PFHxS | | 109 | D | | | |
| 13C8-PFOS | | 147 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-DW02P-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8331-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.100 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 11881.64 | D | 47.50 | 125.00 | 1250.00 |
| PFHpA | 375-85-9 | 1498.54 | D | 40.00 | 125.00 | 1250.00 |
| PFOA | 335-67-1 | 1792.14 | D | 45.00 | 125.00 | 1250.00 |
| PFNA | 375-95-1 | 3.89 | J | 0.65 | 2.50 | 12.50 |
| PFDA | 335-76-2 | 1.25 | U | 0.40 | 1.25 | 12.50 |
| PFUnA | 2058-94-8 | 2.50 | U | 0.73 | 2.50 | 12.50 |
| PFDoA | 307-55-1 | 1.25 | U | 0.45 | 1.25 | 12.50 |
| PFTrDA | 72629-94-8 | 1.25 | U | 0.38 | 1.25 | 12.50 |
| PFTeDA | 376-06-7 | 2.50 | U | 0.63 | 2.50 | 12.50 |
| NMeFOSAA | 2355-31-9 | 5.00 | U | 1.40 | 5.00 | 12.50 |
| NEtFOSAA | 2991-50-6 | 2.50 | U | 1.23 | 2.50 | 12.50 |
| PFBS | 375-73-5 | 9828.61 | D | 32.50 | 125.00 | 1250.00 |
| PFHxS | 355-46-4 | 40736.06 | D | 68.75 | 250.00 | 3125.00 |
| PFOS | 1763-23-1 | 1921.73 | D | 47.50 | 125.00 | 1250.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 124 | D | | | |
| 13C4-PFHpA | | 123 | D | | | |
| 13C8-PFOA | | 119 | D | | | |
| 13C9-PFNA | | 80 | | | | |
| 13C6-PFDA | | 110 | | | | |
| 13C7-PFUnA | | 114 | | | | |
| 13C2-PFDoA | | 104 | | | | |
| 13C2-PFTeDA | | 105 | | | | |
| d3-MeFOSAA | | 90 | | | | |
| d5-EtFOSAA | | 123 | | | | |
| 13C3-PFBS | | 134 | D | | | |
| 13C3-PFHxS | | 113 | D | | | |
| 13C8-PFOS | | 121 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM324-DW02-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8337-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.125 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 3251.34 | D | 12.67 | 33.33 | 333.33 |
| PFHpA | 375-85-9 | 634.23 | D | 3.20 | 10.00 | 100.00 |
| PFOA | 335-67-1 | 1477.57 | D | 12.00 | 33.33 | 333.33 |
| PFNA | 375-95-1 | 12.03 | | 0.52 | 2.00 | 10.00 |
| PFDA | 335-76-2 | 1.17 | J | 0.32 | 1.00 | 10.00 |
| PFUnA | 2058-94-8 | 2.00 | U | 0.58 | 2.00 | 10.00 |
| PFDoA | 307-55-1 | 1.00 | U | 0.36 | 1.00 | 10.00 |
| PFTrDA | 72629-94-8 | 1.00 | U | 0.30 | 1.00 | 10.00 |
| PFTeDA | 376-06-7 | 2.00 | U | 0.50 | 2.00 | 10.00 |
| NMeFOSAA | 2355-31-9 | 4.00 | U | 1.12 | 4.00 | 10.00 |
| NEtFOSAA | 2991-50-6 | 2.00 | U | 0.98 | 2.00 | 10.00 |
| PFBS | 375-73-5 | 3501.38 | D | 8.67 | 33.33 | 333.33 |
| PFHxS | 355-46-4 | 26686.80 | D | 366.67 | 1333.33 | 16666.67 |
| PFOS | 1763-23-1 | 5312.32 | D | 19.00 | 50.00 | 500.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 134 | D | | | |
| 13C4-PFHpA | | 128 | D | | | |
| 13C8-PFOA | | 116 | D | | | |
| 13C9-PFNA | | 78 | | | | |
| 13C6-PFDA | | 106 | | | | |
| 13C7-PFUnA | | 110 | | | | |
| 13C2-PFDoA | | 97 | | | | |
| 13C2-PFTeDA | | 94 | | | | |
| d3-MeFOSAA | | 139 | | | | |
| d5-EtFOSAA | | 131 | | | | |
| 13C3-PFBS | | 128 | D | | | |
| 13C3-PFHxS | | 121 | D | | | |
| 13C8-PFOS | | 108 | D | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | KB80 IB | | | |
|---|---|---|---|---|---|
| Battelle ID | | KB80 IB_10/05/2018 | | | |
| Sample Type | | IB | | | |
| Collection Date | | NA | | | |
| Extraction Date | | NA | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | Water | | | |
| Sample Size | | 0.250 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFOA | 335-67-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 90 |
| 13C4-PFHpA | 92 |
| 13C8-PFOA | 93 |
| 13C9-PFNA | 89 |
| 13C6-PFDA | 100 |
| 13C7-PFUnA | 112 |
| 13C2-PFDoA | 106 |
| 13C2-PFTeDA | 101 |
| d3-MeFOSAA | 90 |
| d5-EtFOSAA | 101 |
| 13C3-PFBS | 90 |
| 13C3-PFHxS | 99 |
| 13C8-PFOS | 93 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | KB80 IB | | | |
|---|---|---|---|---|---|
| Battelle ID | | KB80 IB_10/08/2018 | | | |
| Sample Type | | IB | | | |
| Collection Date | | NA | | | |
| Extraction Date | | NA | | | |
| Analysis Date | | 10/08/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | Water | | | |
| Sample Size | | 0.250 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFOA | 335-67-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 92 |
| 13C4-PFHpA | 93 |
| 13C8-PFOA | 92 |
| 13C9-PFNA | 93 |
| 13C6-PFDA | 107 |
| 13C7-PFUnA | 100 |
| 13C2-PFDoA | 99 |
| 13C2-PFTeDA | 96 |
| d3-MeFOSAA | 80 |
| d5-EtFOSAA | 86 |
| 13C3-PFBS | 90 |
| 13C3-PFHxS | 93 |
| 13C8-PFOS | 98 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | KB80 IB | | | | KB80 IB |
|---|---|---|---|---|---|---|
| Battelle ID | | KB80 IB_10/10/2018 | | | | KB80 IB_10/17/2018 |
| Sample Type | | IB | | | | IB |
| Collection Date | | NA | | | | NA |
| Extraction Date | | NA | | | | NA |
| Analysis Date | | 10/10/2018 | | | | 10/17/2018 |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | Sciex 5500 LC/MS/MS |
| % Moisture | | NA | | | | NA |
| Matrix | | Water | | | | Water |
| Sample Size | | 0.250 | | | | 0.250 |
| Size Unit-Basis | | L | | | | L |
| Units | | ng/L | MDL | LOD | LOQ | ng/L |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 | - |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 | - |
| PFOA | 335-67-1 | 0.50 U | 0.18 | 0.50 | 5.00 | - |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 | - |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 | - |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 | - |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 | - |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 | - |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 | - |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 | - |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 | 1.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 | - |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 | - |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 | 0.50 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 101 | | | | - |
| 13C4-PFHpA | | 95 | | | | - |
| 13C8-PFOA | | 107 | | | | - |
| 13C9-PFNA | | 85 | | | | - |
| 13C6-PFDA | | 94 | | | | - |
| 13C7-PFUnA | | 101 | | | | - |
| 13C2-PFDoA | | 95 | | | | - |
| 13C2-PFTeDA | | 91 | | | | - |
| d3-MeFOSAA | | 77 | | | | - |
| d5-EtFOSAA | | 94 | | | | 96 |
| 13C3-PFBS | | 83 | | | | - |
| 13C3-PFHxS | | 86 | | | | - |
| 13C8-PFOS | | 88 | | | | 96 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Client ID | | | | | | KB80 IB | | |
| Battelle ID | | | | | | KB80 IB_10/19/2018 | | |
| Sample Type | | | | | | IB | | |
| Collection Date | | | | | | NA | | |
| Extraction Date | | | | | | NA | | |
| Analysis Date | | | | | | 10/19/2018 | | |
| Analytical Instrument | | | | | | Sciex 5500 LC/MS/MS | | |
| % Moisture | | | | | | NA | | |
| Matrix | | | | | | Water | | |
| Sample Size | | | | | | 0.250 | | |
| Size Unit-Basis | | | | | | L | | |
| Units | | | MDL | LOD | LOQ | ng/L | | MDL |
| PFHxA | 307-24-4 | - | - | - | - | - | - | - |
| PFHpA | 375-85-9 | - | - | - | - | - | - | - |
| PFOA | 335-67-1 | - | - | - | - | - | - | - |
| PFNA | 375-95-1 | - | - | - | - | - | - | - |
| PFDA | 335-76-2 | - | - | - | - | - | - | - |
| PFUnA | 2058-94-8 | - | - | - | - | - | - | - |
| PFDoA | 307-55-1 | - | - | - | - | - | - | - |
| PFTrDA | 72629-94-8 | - | - | - | - | - | - | - |
| PFTeDA | 376-06-7 | - | - | - | - | - | - | - |
| NMeFOSAA | 2355-31-9 | - | - | - | - | - | - | - |
| NEtFOSAA | 2991-50-6 | U | 0.49 | 1.00 | 5.00 | 1.00 | U | 0.49 |
| PFBS | 375-73-5 | - | - | - | - | - | - | - |
| PFHxS | 355-46-4 | - | - | - | - | - | - | - |
| PFOS | 1763-23-1 | U | 0.19 | 0.50 | 5.00 | - | - | - |
| ***Surrogate Recoveries (%)*** | | | | | | | | |
| 13C5-PFHxA | | - | | | | - | - | |
| 13C4-PFHpA | | - | | | | - | - | |
| 13C8-PFOA | | - | | | | - | - | |
| 13C9-PFNA | | - | | | | - | - | |
| 13C6-PFDA | | - | | | | - | - | |
| 13C7-PFUnA | | - | | | | - | - | |
| 13C2-PFDoA | | - | | | | - | - | |
| 13C2-PFTeDA | | - | | | | - | - | |
| d3-MeFOSAA | | - | | | | - | - | |
| d5-EtFOSAA | | | | | | 64 | | |
| 13C3-PFBS | | - | | | | - | - | |
| 13C3-PFHxS | | - | | | | - | - | |
| 13C8-PFOS | | | | | | - | - | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

Client ID

Battelle ID
Sample Type
Collection Date
Extraction Date
Analysis Date
Analytical Instrument
% Moisture
Matrix
Sample Size
Size Unit-Basis

| Units | | LOD | LOQ |
|---|---|---|---|
| PFHxA | 307-24-4 | - | - |
| PFHpA | 375-85-9 | - | - |
| PFOA | 335-67-1 | - | - |
| PFNA | 375-95-1 | - | - |
| PFDA | 335-76-2 | - | - |
| PFUnA | 2058-94-8 | - | - |
| PFDoA | 307-55-1 | - | - |
| PFTrDA | 72629-94-8 | - | - |
| PFTeDA | 376-06-7 | - | - |
| NMeFOSAA | 2355-31-9 | - | - |
| NEtFOSAA | 2991-50-6 | 1.00 | 5.00 |
| PFBS | 375-73-5 | - | - |
| PFHxS | 355-46-4 | - | - |
| PFOS | 1763-23-1 | - | - |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | |
| 13C4-PFHpA | |
| 13C8-PFOA | |
| 13C9-PFNA | |
| 13C6-PFDA | |
| 13C7-PFUnA | |
| 13C2-PFDoA | |
| 13C2-PFTeDA | |
| d3-MeFOSAA | |
| d5-EtFOSAA | |
| 13C3-PFBS | |
| 13C3-PFHxS | |
| 13C8-PFOS | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | Procedural Blank | | | |
|---|---|---|---|---|---|
| Battelle ID | | CR884PB-FS | | | |
| Sample Type | | PB | | | |
| Collection Date | | 09/28/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | WATER | | | |
| Sample Size | | 0.250 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.50 U | 0.19 | 0.50 | 5.00 |
| PFHpA | 375-85-9 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFOA | 335-67-1 | 0.90 J | 0.18 | 0.50 | 5.00 |
| PFNA | 375-95-1 | 1.00 U | 0.26 | 1.00 | 5.00 |
| PFDA | 335-76-2 | 0.50 U | 0.16 | 0.50 | 5.00 |
| PFUnA | 2058-94-8 | 1.00 U | 0.29 | 1.00 | 5.00 |
| PFDoA | 307-55-1 | 0.50 U | 0.18 | 0.50 | 5.00 |
| PFTrDA | 72629-94-8 | 0.50 U | 0.15 | 0.50 | 5.00 |
| PFTeDA | 376-06-7 | 1.00 U | 0.25 | 1.00 | 5.00 |
| NMeFOSAA | 2355-31-9 | 2.00 U | 0.56 | 2.00 | 5.00 |
| NEtFOSAA | 2991-50-6 | 1.00 U | 0.49 | 1.00 | 5.00 |
| PFBS | 375-73-5 | 0.50 U | 0.13 | 0.50 | 5.00 |
| PFHxS | 355-46-4 | 0.40 U | 0.11 | 0.40 | 5.00 |
| PFOS | 1763-23-1 | 0.50 U | 0.19 | 0.50 | 5.00 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 130 |
| 13C4-PFHpA | 130 |
| 13C8-PFOA | 131 |
| 13C9-PFNA | 114 |
| 13C6-PFDA | 129 |
| 13C7-PFUnA | 131 |
| 13C2-PFDoA | 125 |
| 13C2-PFTeDA | 117 |
| d3-MeFOSAA | 119 |
| d5-EtFOSAA | 118 |
| 13C3-PFBS | 122 |
| 13C3-PFHxS | 125 |
| 13C8-PFOS | 125 |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | Laboratory Control Sample | | | | | |
|---|---|---|---|---|---|---|---|
| Battelle ID | | CR885LCS-FS | | | | | |
| Sample Type | | LCS | | | | | |
| Collection Date | | 09/28/2018 | | | | | |
| Extraction Date | | 09/28/2018 | | | | | |
| Analysis Date | | 10/05/2018 | | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | | |
| % Moisture | | NA | | | | | |
| Matrix | | WATER | | | | | |
| Sample Size | | 0.250 | | | | | |
| Size Unit-Basis | | L | | | | Control Limits | |
| Units | | ng/L | Target | Recovery | Qual | Lower | Upper |
| PFHxA | 307-24-4 | 27.68 | 30.30 | 91 | | 51 | 137 |
| PFHpA | 375-85-9 | 28.17 | 30.00 | 94 | | 48 | 136 |
| PFOA | 335-67-1 | 31.08 | 30.00 | 104 | | 49 | 141 |
| PFNA | 375-95-1 | 33.09 | 30.00 | 110 | | 58 | 122 |
| PFDA | 335-76-2 | 30.82 | 30.00 | 103 | | 59 | 135 |
| PFUnA | 2058-94-8 | 27.76 | 30.00 | 93 | | 64 | 134 |
| PFDoA | 307-55-1 | 29.82 | 30.00 | 99 | | 75 | 131 |
| PFTrDA | 72629-94-8 | 31.97 | 30.00 | 107 | | 42 | 148 |
| PFTeDA | 376-06-7 | 32.13 | 30.00 | 107 | | 42 | 158 |
| NMeFOSAA | 2355-31-9 | 26.72 | 30.00 | 89 | | 50 | 146 |
| NEtFOSAA | 2991-50-6 | 36.93 | 30.00 | 123 | | 51 | 131 |
| PFBS | 375-73-5 | 28.91 | 30.30 | 95 | | 56 | 134 |
| PFHxS | 355-46-4 | 32.78 | 30.30 | 108 | | 52 | 128 |
| PFOS | 1763-23-1 | 25.94 | 30.00 | 86 | | 40 | 144 |
| ***Surrogate Recoveries (%)*** | | | | | | | |
| 13C5-PFHxA | | 118 | | | | | |
| 13C4-PFHpA | | 115 | | | | | |
| 13C8-PFOA | | 104 | | | | | |
| 13C9-PFNA | | 98 | | | | | |
| 13C6-PFDA | | 109 | | | | | |
| 13C7-PFUnA | | 122 | | | | | |
| 13C2-PFDoA | | 116 | | | | | |
| 13C2-PFTeDA | | 111 | | | | | |
| d3-MeFOSAA | | 111 | | | | | |
| d5-EtFOSAA | | 98 | | | | | |
| 13C3-PFBS | | 128 | | | | | |
| 13C3-PFHxS | | 99 | | | | | |
| 13C8-PFOS | | 118 | | | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-324-DW02-0918 | VC-PM323-324-DW02-0918-MS | | | | | |
|---|---|---|---|---|---|---|---|---|
| Battelle ID | | J8321-FS | J8325MS-FS | | | | | |
| Sample Type | | SA | MS | | | | | |
| Collection Date | | 09/20/2018 | 09/20/2018 | | | | | |
| Extraction Date | | 09/28/2018 | 09/28/2018 | | | | | |
| Analysis Date | | 10/06/2018 | 10/06/2018 | | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | Sciex 5500 LC/MS/MS | | | | | |
| % Moisture | | NA | NA | | | | | |
| Matrix | | GW | SB | | | | | |
| Sample Size | | 0.002 | 0.002 | | | | | |
| Size Unit-Basis | | L | L | | | | Control Limits | |
| Units | | ng/L | ng/L | Target | Recovery | Qual | Lower | Upper |
| PFHxA | 307-24-4 | 533887.52 D | 564148.64 D | 7575.00 | 0 | N | 51 | 137 |
| PFHpA | 375-85-9 | 62015.72 D | 73408.29 D | 7500.00 | 152 | N | 48 | 136 |
| PFOA | 335-67-1 | 94310.25 D | 114538.78 D | 7500.00 | 270 | N | 49 | 141 |
| PFNA | 375-95-1 | 538.40 J | 8536.76 | 7500.00 | 107 | | 58 | 122 |
| PFDA | 335-76-2 | 62.50 U | 7100.86 | 7500.00 | 95 | | 59 | 135 |
| PFUnA | 2058-94-8 | 125.00 U | 6916.54 | 7500.00 | 92 | | 64 | 134 |
| PFDoA | 307-55-1 | 62.50 U | 6648.18 | 7500.00 | 89 | | 75 | 131 |
| PFTrDA | 72629-94-8 | 62.50 U | 7003.56 | 7500.00 | 93 | | 42 | 148 |
| PFTeDA | 376-06-7 | 125.00 U | 6922.68 | 7500.00 | 92 | | 42 | 158 |
| NMeFOSAA | 2355-31-9 | 250.00 U | 6486.79 D | 7500.00 | 86 | | 50 | 146 |
| NEtFOSAA | 2991-50-6 | 125.00 U | 6597.28 D | 7500.00 | 88 | | 51 | 131 |
| PFBS | 375-73-5 | 403376.78 D | 455722.10 D | 7575.00 | 691 | N | 56 | 134 |
| PFHxS | 355-46-4 | 1477828.48 D | 1604280.38 D | 7575.00 | 1669 | N | 52 | 128 |
| PFOS | 1763-23-1 | 652847.24 D | 475452.07 D | 7500.00 | 0 | N | 40 | 144 |
| ***Surrogate Recoveries (%)*** | | | | | | | | |
| 13C5-PFHxA | | 120 D | 122 D | | | | | |
| 13C4-PFHpA | | 132 D | 119 D | | | | | |
| 13C8-PFOA | | 119 D | 118 D | | | | | |
| 13C9-PFNA | | 107 D | 106 D | | | | | |
| 13C6-PFDA | | 103 | 106 | | | | | |
| 13C7-PFUnA | | 123 | 108 | | | | | |
| 13C2-PFDoA | | 113 | 117 | | | | | |
| 13C2-PFTeDA | | 95 | 112 | | | | | |
| d3-MeFOSAA | | 118 D | 127 D | | | | | |
| d5-EtFOSAA | | 117 D | 148 D | | | | | |
| 13C3-PFBS | | 146 D | 138 D | | | | | |
| 13C3-PFHxS | | 123 D | 122 D | | | | | |
| 13C8-PFOS | | 144 D | 142 D | | | | | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW02-0918-MSD | | | | | | | | | |
| Battelle ID | | J8326MSD-FS | | | | | | | | | |
| Sample Type | | MSD | | | | | | | | | |
| Collection Date | | 09/20/2018 | | | | | | | | | |
| Extraction Date | | 09/28/2018 | | | | | | | | | |
| Analysis Date | | 10/06/2018 | | | | | | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | | | | | | |
| % Moisture | | NA | | | | | | | | | |
| Matrix | | SB | | | | | | | | | |
| Sample Size | | 0.002 | | | | | | | | | |
| Size Unit-Basis | | L | | | | | Control Limits | | | | RPD |
| Units | | ng/L | | Target | Recovery | Qual | Lower | Upper | RPD | Qual | Limit |
| PFHxA | 307-24-4 | 544264.01 | D | 7575.00 | 0 | N | 51 | 137 | 0.0 | | ≤ 30 |
| PFHpA | 375-85-9 | 68484.60 | D | 7500.00 | 86 | | 48 | 136 | 55.5 | N | ≤ 30 |
| PFOA | 335-67-1 | 111661.30 | D | 7500.00 | 231 | N | 49 | 141 | 15.6 | | ≤ 30 |
| PFNA | 375-95-1 | 7843.31 | | 7500.00 | 97 | | 58 | 122 | 9.8 | | ≤ 30 |
| PFDA | 335-76-2 | 7284.09 | | 7500.00 | 97 | | 59 | 135 | 2.1 | | ≤ 30 |
| PFUnA | 2058-94-8 | 6984.67 | | 7500.00 | 93 | | 64 | 134 | 1.1 | | ≤ 30 |
| PFDoA | 307-55-1 | 6500.77 | | 7500.00 | 87 | | 75 | 131 | 2.3 | | ≤ 30 |
| PFTrDA | 72629-94-8 | 7429.68 | | 7500.00 | 99 | | 42 | 148 | 6.3 | | ≤ 30 |
| PFTeDA | 376-06-7 | 7044.49 | | 7500.00 | 94 | | 42 | 158 | 2.2 | | ≤ 30 |
| NMeFOSAA | 2355-31-9 | 6687.73 | D | 7500.00 | 89 | | 50 | 146 | 3.4 | | ≤ 30 |
| NEtFOSAA | 2991-50-6 | 8145.93 | | 7500.00 | 109 | | 51 | 131 | 21.3 | | ≤ 30 |
| PFBS | 375-73-5 | 461552.87 | D | 7575.00 | 768 | N | 56 | 134 | 10.6 | | ≤ 30 |
| PFHxS | 355-46-4 | 1726119.11 | D | 7575.00 | 3278 | N | 52 | 128 | 65.0 | N | ≤ 30 |
| PFOS | 1763-23-1 | 493434.99 | D | 7500.00 | 0 | N | 40 | 144 | 0.0 | | ≤ 30 |

***Surrogate Recoveries (%)***

| | | |
|---|---|---|
| 13C5-PFHxA | 127 | D |
| 13C4-PFHpA | 114 | D |
| 13C8-PFOA | 122 | D |
| 13C9-PFNA | 107 | D |
| 13C6-PFDA | 103 | |
| 13C7-PFUnA | 108 | |
| 13C2-PFDoA | 119 | |
| 13C2-PFTeDA | 104 | |
| d3-MeFOSAA | 118 | D |
| d5-EtFOSAA | 141 | |
| 13C3-PFBS | 122 | D |
| 13C3-PFHxS | 120 | D |
| 13C8-PFOS | 128 | D |

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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 highers concentration level in the calibration |
| H | Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract. |
| J | Analyte detected below the Limit of Quantitation (LOQ) |
| ME | Significant Matrix Interference - Estimated value. |
| MI | Significant Matrix Interference - value could not be determined. |
| n | Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria |
| 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 Method detection limit (MDL) value, Limit of Detection (LOD) reported |

# Miscellaneous Documentation

# QA/QC Summary
# Batch 18-0580

| | |
|---|---|
| Project: | CTO-4164 Naval Base Ventura County, California |
| Parameters: | PFAS |
| Laboratory: | Battelle, Norwell, MA |
| Matrix: | GW and AQ |
| Data Set: | DP-18-0285 |
| Analytical SOP: | 5-369 |
| Method Reference: | PFAS to QSM 5.1 Table B-15 |

| Sample Custody | | |
|---|---|---|
| Collection Date | Receipt Date | Temp (°C) |
| 9/20 and 21/2018 | 9/25/2018 | 0.9 and 1.1 |
| Corrective Actions | Equipment blank and field blank samples differed from COC to sample containers. Client provided updated client ID information via email that was included with the sample custody records. | |
| Sample Storage | The water samples were stored refrigerated until extraction. | |
| Related samples | NA | |

| | METHOD SUMMARIES |
|---|---|
| Sample Preparation | Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% $NH_3$ in methanol. Extracts were concentrated to dryness under nitrogen with a water bath set between 35 °C and 45 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis. |
| Prep comments | All samples were pre-screened prior to initial extraction. Based on the concentrations detected in the pre-screening results and a discussion with the CH2M Project Chemist, the following samples used a reduced volume for extraction to avoid contamination of the laboratory and the instrument:<br>J8286-FS (VC-CS94-DW01P-0918)<br>J8319-FS (VC-PM323-324-DW01-0918)<br>J8320-FS (VC-PM323-324-DW01P-0918)<br>J8321-FS (VC-PM323-324-DW02-0918)<br>J8322-FS (VC-PM323-324-DW03-0918)<br>J8330-FS (VC-PM323-DW02-0918)<br>J8331-FS (VC-PM323-DW02P-0918)<br>J8337-FS (VC-PM324-DW02-0918) |
| 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. |
| Analysis Comments | Samples analyzed on Sciex 5500 LC-MS/MS. |

# QA/QC Summary
# Batch 18-0580

| | |
|---|---|
| | The ion ratio for PFNA in sample J8322-FS (VC-PM323-324-DW03-0918) was above the 50% RPD criteria.<br><br>When detected, PFHxS and PFOS contain both linear and branched isomers.<br><br>In cases were native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution. |

| Holding Times | Extraction Date(s) | Analysis Date(s) |
|---|---|---|
| | 9/28/2018 | 10/5, 6, 8, 10, 17, 19, and 20/2018 |

| | |
|---|---|
| Procedural Blank (PB) | A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination. |
| ≤ ½ the LOQ Samples >10x PB | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Laboratory Control Spike (LCS) | A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. |
| Laboratory derived control limits for recovery | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Matrix Spike and Matrix Spike Duplicate (MS/MSD) | A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. |
| Laboratory derived control limits for recovery and <30% RPD | 11 exceedances noted for recovery and 2 for RPD. |
| | In all cases, the concentrations of PFAS in the background sample exceeded the amount fortified into the MS and MSD samples, all PFAS compounds detected below the concentration fortified passed both criteria. |

| | |
|---|---|
| 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 | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| 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 several instances where 13C2-PFOA and 13C4-PFOS would fail IS area criteria. These failures are due to the amount of native PFOA and PFOS found in the samples interfering with the internal standards in the non-diluted extracts. In these cases, the extracted internal standards that would use these two internal standards are reported from a dilution to mitigate the interferences from the high concentrations in the non-diluted samples. No data is reported from extracts where the IS areas would have failed criteria. |

# QA/QC Summary
# Batch 18-0580

| | |
|---|---|
| Initial Calibration (ICAL) | The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadradic curve fitting. |
| +/- 30% of true value, $R^2 \geq 0.99$ | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Independent Calibration Check (ICC) | The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL. |
| +/- 30% of true value | No exceedances noted. |
| | No comments. |

| | |
|---|---|
| Continuing Calibration Verification (CCV) | Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid. |
| +/- 30% of true value | No exceedances noted. |
| | The CCV KB75, analyzed at 12:30:32 PM on 10/06/2018, exhibited high recoveries for PFHxS and PFOS, however, no results were reported from this bracket of samples. |

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

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project Number: 100110125-01
Preparation Batch: 18-0580
Data Set: DP-18-0285
Test Code: Master_369

| 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 | 11 | For all 11 exceedences, the background sample concentration of native analytes was much higher than the amount spiked into the MS and MSD. Analytes that did not have high concentrations in the backround sample had acceptable recoveries. LMG 10/19/18 |
| Matrix Spike / Matrix Spike Duplicate Precision | 2 | There were two exceedences for MS/MSD precision. Both instances were for analytes whose concentration in the background sample was much higher than the amount spiked into the MS and MSD. LMG 10/19/18 |
| Extracted Internal Standard Analytes (Surrogates) | 0 | None |
| Instrument Calibration | 0 | None |
| Instrument Blank | 0 | None |
| Independent Calibration Check | 0 | None |
| Continuing Calibration Verification | 0 | None |

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# BATTELLE - NORWELL OPERATIONS
## MISCELLANEOUS DOCUMENTATION FORM

| | | | |
|---|---|---|---|
| **Project Title:** | CTO-4164 Naval Base Ventura County, | **Data Set Number:** | DP-18-0285 |
| **Project Number:** | 100110125-01 | **Prep Batch Number:** | 18-0580 |
| **Entered By:** | Lauren Griffith | **Entered On:** | 10/15/2018 |
| **Test Code (Matrix Type):** | Master_369(L) | | |

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
LMG 10/19/18

The L6 of the calibration was utilized on the IS Area report for methods 18-0580_SIS and 18-0580D_SIS rather than the L5.
LMG 10/19/18

KB79 was not used in method 18-0580_BASE for NMeFOSAA and NetFOSAA. There is no impact on the data once this point is removed.
LMG 10/22/18

The ion ratio for PFNA in sample J8322-FS (VC-PM323-324-DW03-0918) was above the 50% RPD criteria.
LMG 10/22/18

PFOS appears to exhibit a retention time shift because it is a branched analyte and the retention time is defined by whichever branched peak has the largest area. The entire branched peak is picked in all cases.
LMG 10/19/18

In cases were native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution.
LMG 10/19/18

There are 28 instances of extracted internal standards (surrogates) not reported from the non-diluted extract. This is due to the higher levels of native PFOA and PFOS found in the samples interfering with the 13C2-PFOA and 13C4-PFOS internal standards used to quantify the surrogates, causing the internal standard areas to be outside of criteria. In these cases, the surrogates are reported from dilutions, however, the native compounds are reported from the non-diluted extracts as the interferences are with the internal standards and not the surrogates used to quantify the native compounds.
LMG 10/19/18

CCV KB75, analyzed at 12:30:32 PM on 10/06/2018, exhibited high recoveries for PFHxS and PFOS. These analytes were not reported from the sample bracketed by this CCV(J8322), so the exceedence does not apply.
LMG 10/19/18

**Task Leader Approval:**

**SupervisorApproval:**

**PM Approval:**

Digitally signed by Jonathan Thorn
Date: 2018.10.22 16:08:44 -04'00'

BATTELLE

# Example Calculation for PFAS

Calculation of final concentration from area:

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

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: | J8337-FS-D(3) |
| Client Sample ID: | VC-PM324-DW02-0918 |
| Sample Size: | 0.125 |
| Units: | L |
| Dilution Factor: | 10.000 |
| PIV (L): | 0.001 |
| Target Analyte: | PFHpA |
| MRM Transition: | 363.0 / 319.0 |
| Data file: | 18-0580.wiff |
| Result table: | 18-0580_BASE |
| Area: | 2,347,240.71 |
| IS Name: | 13C4-PFHpA |
| IS Area: | 85,182.66 |
| IS Amount (ng/L): | 250 |
| y-intercept: | 0.07783 |
| slope: | 0.86648 |

$$\text{Concentration} = \frac{[(2347240.71/85182.66) - 0.07783]}{0.86648} * 250 * 0.001 * 10 / 0.125$$

ng/L = 634.23

*Final concentration may vary based on rounding.

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01
Preparation Batch: 18-0580
Data Set: DP-18-0285

| | | CR884PB-FS (Procedural Blank) | CR885LCS-FS (Laboratory Control Sample) | J8325MS-FS (VC-PM323-324-DW02-0918-MS) | J8326MSD-FS (VC-PM323-324-DW02-0918-MSD | J8285-FS (VC-CS94-DW01-0918) | J8286-FS (VC-CS94-DW01P-0918) | J8287-FS (VC-CS94-DW02-0918) | J8288-FS (VC-CS94-DW03-0918) |
|---|---|---|---|---|---|---|---|---|---|
| PFHxA | 307-24-4 | - | L | L | L | L | L | L | L |
| PFHpA | 375-85-9 | - | L | L | L | L | L | L | L |
| PFOA | 335-67-1 | - | L | L | L | L | L | L | L |
| PFNA | 375-95-1 | - | L | L | L | - | L | - | - |
| PFDA | 335-76-2 | - | L | L | L | - | - | - | - |
| PFUnA | 2058-94-8 | - | L | L | L | - | - | - | - |
| PFDoA | 307-55-1 | - | L | L | L | - | - | - | - |
| PFTrDA | 72629-94-8 | - | L | L | L | - | - | - | - |
| PFTeDA | 376-06-7 | - | L | L | L | - | - | - | - |
| NMeFOSAA | 2355-31-9 | - | L | L | L | - | - | - | - |
| NEtFOSAA | 2991-50-6 | - | L | L | L | - | - | - | - |
| PFBS | 375-73-5 | - | 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 |
| PFOS | 1763-23-1 | - | L/Br | L/Br | L/Br | L/Br | L/Br | L/Br | L/Br |

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

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01
Preparation Batcl
Data Set: DP-18-

| | J8289-FS (VC-CS94-DW04-0918) | J8290-FS (VC-CS94-DW05-0918) | J8308-FS (VC-SO-FB04-092118) | J8309-FS (VC-SO-EB04-092118) | J8319-FS (VC-PM323-324-DW01-0918) | J8320-FS (VC-PM323-324-DW01P-0918) | J8321-FS (VC-PM323-324-DW02-0918) | J8322-FS (VC-PM323-324-DW03-0918) |
|---|---|---|---|---|---|---|---|---|
| PFHxA | L | L | - | - | L | L | L | L |
| PFHpA | L | L | - | - | L | L | L | L |
| PFOA | L | L | - | - | L | L | L | L |
| PFNA | - | - | - | - | L | L | - | L |
| PFDA | - | - | - | - | - | - | - | - |
| PFUnA | - | - | - | - | - | - | - | - |
| PFDoA | - | - | - | - | - | - | - | - |
| PFTrDA | - | - | - | - | - | - | - | - |
| PFTeDA | - | - | - | - | - | - | - | - |
| NMeFOSAA | - | - | - | - | - | - | - | - |
| NEtFOSAA | - | - | - | - | - | - | - | - |
| PFBS | L | L | - | - | L | L | L | L |
| PFHxS | L/Br | L/Br | - | - | L/Br | L/Br | L/Br | L/Br |
| PFOS | L/Br | L/Br | - | - | L/Br | L/Br | L/Br | L/Br |

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

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01
Preparation Batcl
Data Set: DP-18-

| | J8323-FS (VC-AQ-FB03-092018) | J8324-FS (VC-AQ-EB03-092018) | J8330-FS (VC-PM323-DW02-0918) | J8331-FS (VC-PM323-DW02P-0918) | J8337-FS (VC-PM324-DW02-0918) |
|---|---|---|---|---|---|
| PFHxA | - | - | L | L | L |
| PFHpA | - | - | L | L | L |
| PFOA | - | - | L | L | L |
| PFNA | - | - | - | - | L |
| PFDA | - | - | - | - | - |
| PFUnA | - | - | - | - | - |
| PFDoA | - | - | - | - | - |
| PFTrDA | - | - | - | - | - |
| PFTeDA | - | - | - | - | - |
| NMeFOSAA | - | - | - | - | - |
| NEtFOSAA | - | - | - | - | - |
| PFBS | - | - | L | L | L |
| PFHxS | - | - | L/Br | L/Br | L/Br |
| PFOS | - | L/Br | L/Br | L/Br | L/Br |

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

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB78 | L6 | 10/5/18 11:22 | 13C2-PFOA | 81,119.78 | 40,559.89 | 121,679.67 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/5/18 10:28 | 13C2-PFOA | 87,694.12 | 40,559.89 | 121,679.67 | |
| KB74 | L2 | 10/5/18 10:39 | 13C2-PFOA | 92,810.43 | 40,559.89 | 121,679.67 | |
| KB75 | L3 | 10/5/18 10:50 | 13C2-PFOA | 77,486.60 | 40,559.89 | 121,679.67 | |
| KB76 | L4 | 10/5/18 11:01 | 13C2-PFOA | 86,595.38 | 40,559.89 | 121,679.67 | |
| KB77 | L5 | 10/5/18 11:12 | 13C2-PFOA | 66,861.87 | 40,559.89 | 121,679.67 | |
| KB78 | L6 | 10/5/18 11:22 | 13C2-PFOA | 81,119.78 | 40,559.89 | 121,679.67 | |
| KB79 | L7 | 10/5/18 11:33 | 13C2-PFOA | 79,331.56 | 40,559.89 | 121,679.67 | |
| KB80 IB | Instrument Blank | 10/5/18 11:44 | 13C2-PFOA | 96,909.97 | 40,559.89 | 121,679.67 | |
| KB81 ICC | ICC | 10/5/18 11:55 | 13C2-PFOA | 90,802.43 | 40,559.89 | 121,679.67 | |
| KB77 CCV | CCV | 10/5/18 21:28 | 13C2-PFOA | 91,592.68 | 40,559.89 | 121,679.67 | |
| CR884PB-FS(0) | Procedural Blank | 10/5/18 21:50 | 13C2-PFOA | 82,362.58 | 40,559.89 | 121,679.67 | |
| CR885LCS-FS(0) | Laboratory Control Sample | 10/5/18 22:00 | 13C2-PFOA | 88,471.27 | 40,559.89 | 121,679.67 | |
| J8308-FS(0) | VC-SO-FB04-092118 | 10/5/18 22:11 | 13C2-PFOA | 85,481.97 | 40,559.89 | 121,679.67 | |
| J8324-FS(0) | VC-AQ-EB03-092018 | 10/5/18 22:22 | 13C2-PFOA | 89,108.60 | 40,559.89 | 121,679.67 | |
| J8323-FS(0) | VC-AQ-FB03-092018 | 10/5/18 22:33 | 13C2-PFOA | 97,527.92 | 40,559.89 | 121,679.67 | |
| J8285-FS(0) | VC-CS94-DW01-0918 | 10/5/18 22:44 | 13C2-PFOA | 90,746.68 | 40,559.89 | 121,679.67 | |
| J8285-FS-D(3) | VC-CS94-DW01-0918 | 10/5/18 22:55 | 13C2-PFOA | 85,028.11 | 40,559.89 | 121,679.67 | |
| J8285-FS-D(5) | VC-CS94-DW01-0918 | 10/5/18 23:06 | 13C2-PFOA | 88,626.96 | 40,559.89 | 121,679.67 | |
| J8285-FS-D(7) | VC-CS94-DW01-0918 | 10/5/18 23:16 | 13C2-PFOA | 82,046.97 | 40,559.89 | 121,679.67 | |
| J8285-FS-D(9) | VC-CS94-DW01-0918 | 10/5/18 23:27 | 13C2-PFOA | 82,799.58 | 40,559.89 | 121,679.67 | |
| KB76 CCV | CCV | 10/5/18 23:38 | 13C2-PFOA | 97,363.06 | 40,559.89 | 121,679.67 | |
| J8309-FS(0) | VC-SO-EB04-092118 | 10/6/18 0:00 | 13C2-PFOA | 88,111.25 | 40,559.89 | 121,679.67 | |
| J8319-FS(0) | VC-PM323-324-DW01-0918 | 10/6/18 0:11 | 13C2-PFOA | 96,257.84 | 40,559.89 | 121,679.67 | |
| J8319-FS-D(3) | VC-PM323-324-DW01-0918 | 10/6/18 0:22 | 13C2-PFOA | 76,811.36 | 40,559.89 | 121,679.67 | |
| J8319-FS-D(5) | VC-PM323-324-DW01-0918 | 10/6/18 0:32 | 13C2-PFOA | 80,202.22 | 40,559.89 | 121,679.67 | |
| ~~J8319-FS-D(7)~~ | ~~VC-PM323-324-DW01-0918~~ | ~~10/6/18 0:43~~ | ~~13C2-PFOA~~ | ~~89,758.87~~ | ~~40,559.89~~ | ~~121,679.67~~ | |
| J8319-FS-D(9) | VC-PM323-324-DW01-0918 | 10/6/18 0:54 | 13C2-PFOA | 92,723.35 | 40,559.89 | 121,679.67 | |
| J8287-FS(0) | VC-CS94-DW02-0918 | 10/6/18 1:05 | 13C2-PFOA | 98,591.70 | 40,559.89 | 121,679.67 | |
| J8287-FS-D(3) | VC-CS94-DW02-0918 | 10/6/18 1:16 | 13C2-PFOA | 84,848.79 | 40,559.89 | 121,679.67 | |
| ~~J8287-FS-D(5)~~ | ~~VC-CS94-DW02-0918~~ | ~~10/6/18 1:27~~ | ~~13C2-PFOA~~ | ~~83,062.77~~ | ~~40,559.89~~ | ~~121,679.67~~ | |
| J8287-FS-D(7) | VC-CS94-DW02-0918 | 10/6/18 1:38 | 13C2-PFOA | 81,254.71 | 40,559.89 | 121,679.67 | |
| KB77 CCV | CCV | 10/6/18 1:49 | 13C2-PFOA | 94,543.39 | 40,559.89 | 121,679.67 | |
| J8290-FS(0) | VC-CS94-DW05-0918 | 10/6/18 2:10 | 13C2-PFOA | 87,699.50 | 40,559.89 | 121,679.67 | |
| J8290-FS-D(3) | VC-CS94-DW05-0918 | 10/6/18 2:21 | 13C2-PFOA | 85,133.25 | 40,559.89 | 121,679.67 | |
| J8290-FS-D(5) | VC-CS94-DW05-0918 | 10/6/18 2:32 | 13C2-PFOA | 96,782.17 | 40,559.89 | 121,679.67 | |
| J8288-FS(0) | VC-CS94-DW03-0918 | 10/6/18 2:43 | 13C2-PFOA | 76,408.51 | 40,559.89 | 121,679.67 | |
| J8288-FS-D(3) | VC-CS94-DW03-0918 | 10/6/18 2:54 | 13C2-PFOA | 82,598.87 | 40,559.89 | 121,679.67 | |
| J8286-FS(0) | VC-CS94-DW01P-0918 | 10/6/18 3:05 | 13C2-PFOA | 80,099.19 | 40,559.89 | 121,679.67 | |
| J8286-FS-D(3) | VC-CS94-DW01P-0918 | 10/6/18 3:15 | 13C2-PFOA | 83,205.75 | 40,559.89 | 121,679.67 | |
| J8286-FS-D(5) | VC-CS94-DW01P-0918 | 10/6/18 3:26 | 13C2-PFOA | 85,772.12 | 40,559.89 | 121,679.67 | |
| J8386-FS-D(7) | VC-CS94-DW01P-0918 | 10/6/18 3:37 | 13C2-PFOA | 89,347.75 | 40,559.89 | 121,679.67 | |
| J8386-FS-D(9) | VC-CS94-DW01P-0918 | 10/6/18 3:48 | 13C2-PFOA | 97,207.97 | 40,559.89 | 121,679.67 | |
| KB76 CCV | CCV | 10/6/18 3:59 | 13C2-PFOA | 97,039.28 | 40,559.89 | 121,679.67 | |
| J8320-FS(0)) | VC-PM323-324-DW01P-0918 | 10/6/18 4:21 | 13C2-PFOA | 91,492.05 | 40,559.89 | 121,679.67 | |
| J8320-FS-D(3) | VC-PM323-324-DW01P-0918 | 10/6/18 4:32 | 13C2-PFOA | 80,982.48 | 40,559.89 | 121,679.67 | |
| J8320-FS-D(5) | VC-PM323-324-DW01P-0918 | 10/6/18 4:42 | 13C2-PFOA | 77,164.03 | 40,559.89 | 121,679.67 | |
| ~~J8320-FS-D(7)~~ | ~~VC-PM323-324-DW01P-0918~~ | ~~10/6/18 4:53~~ | ~~13C2-PFOA~~ | ~~83,949.35~~ | ~~40,559.89~~ | ~~121,679.67~~ | |
| ~~J8320-FS-D(9)~~ | ~~VC-PM323-324-DW01P-0918~~ | ~~10/6/18 5:04~~ | ~~13C2-PFOA~~ | ~~93,297.36~~ | ~~40,559.89~~ | ~~121,679.67~~ | |
| J8337-FS(0) | VC-PM324-DW02-0918 | 10/6/18 5:15 | 13C2-PFOA | 94,392.11 | 40,559.89 | 121,679.67 | |
| J8337-FS-D(3) | VC-PM324-DW02-0918 | 10/6/18 5:26 | 13C2-PFOA | 81,217.29 | 40,559.89 | 121,679.67 | |
| J8337-FS-D(5) | VC-PM324-DW02-0918 | 10/6/18 5:37 | 13C2-PFOA | 80,973.15 | 40,559.89 | 121,679.67 | |
| J8337-FS-D(7) | VC-PM324-DW02-0918 | 10/6/18 5:48 | 13C2-PFOA | 81,069.54 | 40,559.89 | 121,679.67 | |
| KB77 CCV | CCV | 10/6/18 5:59 | 13C2-PFOA | 91,332.67 | 40,559.89 | 121,679.67 | |
| J8321-FS(0) | VC-PM323-324-DW02-0918 | 10/6/18 6:20 | 13C2-PFOA | 99,156.19 | 40,559.89 | 121,679.67 | |
| J8321-FS-D(3) | VC-PM323-324-DW02-0918 | 10/6/18 6:31 | 13C2-PFOA | 80,675.51 | 40,559.89 | 121,679.67 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB78 | L6 | 10/5/18 11:22 | 13C2-PFOA | 81,119.78 | 40,559.89 | 121,679.67 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| J8321-FS-D(5) | VC-PM323-324-DW02-0918 | 10/6/18 6:42 | 13C2-PFOA | 87,699.31 | 40,559.89 | 121,679.67 | |
| J8321-FS-D(7) | VC-PM323-324-DW02-0918 | 10/6/18 6:53 | 13C2-PFOA | 87,851.92 | 40,559.89 | 121,679.67 | |
| J8321-FS-D(9) | VC-PM323-324-DW02-0918 | 10/6/18 7:04 | 13C2-PFOA | 92,194.11 | 40,559.89 | 121,679.67 | |
| J8289-FS(0) | VC-CS94-DW04-0918 | 10/6/18 7:15 | 13C2-PFOA | 121,112.49 | 40,559.89 | 121,679.67 | |
| J8289-FS-D(3) | VC-CS94-DW04-0918 | 10/6/18 7:26 | 13C2-PFOA | 83,996.35 | 40,559.89 | 121,679.67 | |
| KB76 CCV | CCV | 10/6/18 7:36 | 13C2-PFOA | 82,084.86 | 40,559.89 | 121,679.67 | |
| J8330-FS(0) | VC-PM323-DW02-0918 | 10/6/18 7:58 | 13C2-PFOA | 110,960.87 | 40,559.89 | 121,679.67 | |
| J8330-FS-D(3) | VC-PM323-DW02-0918 | 10/6/18 8:09 | 13C2-PFOA | 94,022.82 | 40,559.89 | 121,679.67 | |
| J8330-FS-D(5) | VC-PM323-DW02-0918 | 10/6/18 8:20 | 13C2-PFOA | 102,039.75 | 40,559.89 | 121,679.67 | |
| J8330-FS-D(7) | VC-PM323-DW02-0918 | 10/6/18 8:31 | 13C2-PFOA | 78,236.13 | 40,559.89 | 121,679.67 | |
| J8331-FS(0) | VC-PM323-DW02P-0918 | 10/6/18 8:42 | 13C2-PFOA | 102,783.99 | 40,559.89 | 121,679.67 | |
| ~~J8331-FS-D(3)~~ | ~~VC-PM323-DW02P-0918~~ | ~~10/6/18 8:52~~ | ~~13C2-PFOA~~ | ~~83,461.64~~ | ~~40,559.89~~ | ~~121,679.67~~ | |
| J8331-FS-D(5) | VC-PM323-DW02P-0918 | 10/6/18 9:03 | 13C2-PFOA | 81,163.58 | 40,559.89 | 121,679.67 | |
| J8331-FS-D(7) | VC-PM323-DW02P-0918 | 10/6/18 9:14 | 13C2-PFOA | 77,878.35 | 40,559.89 | 121,679.67 | |
| KB77 CCV | CCV | 10/6/18 9:25 | 13C2-PFOA | 118,500.07 | 40,559.89 | 121,679.67 | |
| J8325MS-FS(0) | VC-PM323-324-DW02-0918-MS | 10/6/18 9:47 | 13C2-PFOA | 102,945.32 | 40,559.89 | 121,679.67 | |
| J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/6/18 9:58 | 13C2-PFOA | 82,160.93 | 40,559.89 | 121,679.67 | |
| J8325MS-FS-D(5) | VC-PM323-324-DW02-0918-MS | 10/6/18 10:09 | 13C2-PFOA | 89,908.22 | 40,559.89 | 121,679.67 | |
| J8325MS-FS-D(7) | VC-PM323-324-DW02-0918-MS | 10/6/18 10:20 | 13C2-PFOA | 80,555.29 | 40,559.89 | 121,679.67 | |
| J8326MSD-FS(0) | VC-PM323-324-DW02-0918-MSD | 10/6/18 10:30 | 13C2-PFOA | 110,189.39 | 40,559.89 | 121,679.67 | |
| ~~J8326MSD-FS-D(3)~~ | ~~VC-PM323-324-DW02-0918-MSD~~ | ~~10/6/18 10:41~~ | ~~13C2-PFOA~~ | ~~14,076.11~~ | ~~40,559.89~~ | ~~121,679.67~~ | ~~N~~ |
| J8326MSD-FS-D(5) | VC-PM323-324-DW02-0918-MSD | 10/6/18 10:52 | 13C2-PFOA | 78,804.71 | 40,559.89 | 121,679.67 | |
| J8326MSD-FS-D(7) | VC-PM323-324-DW02-0918-MSD | 10/6/18 11:03 | 13C2-PFOA | 85,294.27 | 40,559.89 | 121,679.67 | |
| KB76 CCV | CCV | 10/6/18 11:14 | 13C2-PFOA | 88,707.35 | 40,559.89 | 121,679.67 | |
| ~~J8322-FS(0)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/6/18 11:36~~ | ~~13C2-PFOA~~ | ~~279,591.95~~ | ~~40,559.89~~ | ~~121,679.67~~ | ~~N~~ |
| ~~J8322-FS-D(3)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/6/18 11:47~~ | ~~13C2-PFOA~~ | ~~80,267.74~~ | ~~40,559.89~~ | ~~121,679.67~~ | |
| ~~J8322-FS-D(5)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/6/18 11:57~~ | ~~13C2-PFOA~~ | ~~22,657.07~~ | ~~40,559.89~~ | ~~121,679.67~~ | ~~N~~ |
| J8322-FS-D(7) | VC-PM323-324-DW03-0918 | 10/6/18 12:08 | 13C2-PFOA | 82,210.41 | 40,559.89 | 121,679.67 | |
| KB75 CCV | CCV | 10/6/18 12:30 | 13C2-PFOA | 88,115.42 | 40,559.89 | 121,679.67 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB78 | L6 | 10/5/18 11:22 | 13C2-PFDA | 101,516.20 | 50,758.10 | 152,274.30 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/5/18 10:28 | 13C2-PFDA | 97,668.20 | 50,758.10 | 152,274.30 | |
| KB74 | L2 | 10/5/18 10:39 | 13C2-PFDA | 111,647.70 | 50,758.10 | 152,274.30 | |
| KB75 | L3 | 10/5/18 10:50 | 13C2-PFDA | 87,134.11 | 50,758.10 | 152,274.30 | |
| KB76 | L4 | 10/5/18 11:01 | 13C2-PFDA | 108,936.77 | 50,758.10 | 152,274.30 | |
| KB77 | L5 | 10/5/18 11:12 | 13C2-PFDA | 87,027.40 | 50,758.10 | 152,274.30 | |
| KB78 | L6 | 10/5/18 11:22 | 13C2-PFDA | 101,516.20 | 50,758.10 | 152,274.30 | |
| KB79 | L7 | 10/5/18 11:33 | 13C2-PFDA | 95,725.84 | 50,758.10 | 152,274.30 | |
| KB80 IB | Instrument Blank | 10/5/18 11:44 | 13C2-PFDA | 101,055.81 | 50,758.10 | 152,274.30 | |
| KB81 ICC | ICC | 10/5/18 11:55 | 13C2-PFDA | 113,375.07 | 50,758.10 | 152,274.30 | |
| KB77 CCV | CCV | 10/5/18 21:28 | 13C2-PFDA | 103,255.81 | 50,758.10 | 152,274.30 | |
| CR884PB-FS(0) | Procedural Blank | 10/5/18 21:50 | 13C2-PFDA | 94,824.89 | 50,758.10 | 152,274.30 | |
| CR885LCS-FS(0) | Laboratory Control Sample | 10/5/18 22:00 | 13C2-PFDA | 102,997.34 | 50,758.10 | 152,274.30 | |
| J8308-FS(0) | VC-SO-FB04-092118 | 10/5/18 22:11 | 13C2-PFDA | 100,034.77 | 50,758.10 | 152,274.30 | |
| J8324-FS(0) | VC-AQ-EB03-092018 | 10/5/18 22:22 | 13C2-PFDA | 98,355.85 | 50,758.10 | 152,274.30 | |
| J8323-FS(0) | VC-AQ-FB03-092018 | 10/5/18 22:33 | 13C2-PFDA | 110,048.73 | 50,758.10 | 152,274.30 | |
| J8285-FS(0) | VC-CS94-DW01-0918 | 10/5/18 22:44 | 13C2-PFDA | 97,391.00 | 50,758.10 | 152,274.30 | |
| J8285-FS-D(3) | VC-CS94-DW01-0918 | 10/5/18 22:55 | 13C2-PFDA | 102,441.53 | 50,758.10 | 152,274.30 | |
| J8285-FS-D(5) | VC-CS94-DW01-0918 | 10/5/18 23:06 | 13C2-PFDA | 94,815.88 | 50,758.10 | 152,274.30 | |
| J8285-FS-D(7) | VC-CS94-DW01-0918 | 10/5/18 23:16 | 13C2-PFDA | 101,215.22 | 50,758.10 | 152,274.30 | |
| J8285-FS-D(9) | VC-CS94-DW01-0918 | 10/5/18 23:27 | 13C2-PFDA | 95,169.71 | 50,758.10 | 152,274.30 | |
| KB76 CCV | CCV | 10/5/18 23:38 | 13C2-PFDA | 111,477.67 | 50,758.10 | 152,274.30 | |
| J8309-FS(0) | VC-SO-EB04-092118 | 10/6/18 0:00 | 13C2-PFDA | 102,278.71 | 50,758.10 | 152,274.30 | |
| J8319-FS(0) | VC-PM323-324-DW01-0918 | 10/6/18 0:11 | 13C2-PFDA | 97,152.33 | 50,758.10 | 152,274.30 | |
| J8319-FS-D(3) | VC-PM323-324-DW01-0918 | 10/6/18 0:22 | 13C2-PFDA | 97,360.77 | 50,758.10 | 152,274.30 | |
| J8319-FS-D(5) | VC-PM323-324-DW01-0918 | 10/6/18 0:32 | 13C2-PFDA | 94,476.19 | 50,758.10 | 152,274.30 | |
| ~~J8319-FS-D(7)~~ | ~~VC-PM323-324-DW01-0918~~ | ~~10/6/18 0:43~~ | ~~13C2-PFDA~~ | ~~99,041.98~~ | ~~50,758.10~~ | ~~152,274.30~~ | |
| J8319-FS-D(9) | VC-PM323-324-DW01-0918 | 10/6/18 0:54 | 13C2-PFDA | 105,246.10 | 50,758.10 | 152,274.30 | |
| J8287-FS(0) | VC-CS94-DW02-0918 | 10/6/18 1:05 | 13C2-PFDA | 107,926.68 | 50,758.10 | 152,274.30 | |
| J8287-FS-D(3) | VC-CS94-DW02-0918 | 10/6/18 1:16 | 13C2-PFDA | 99,321.70 | 50,758.10 | 152,274.30 | |
| ~~J8287-FS-D(5)~~ | ~~VC-CS94-DW02-0918~~ | ~~10/6/18 1:27~~ | ~~13C2-PFDA~~ | ~~91,921.04~~ | ~~50,758.10~~ | ~~152,274.30~~ | |
| J8287-FS-D(7) | VC-CS94-DW02-0918 | 10/6/18 1:38 | 13C2-PFDA | 94,139.70 | 50,758.10 | 152,274.30 | |
| KB77 CCV | CCV | 10/6/18 1:49 | 13C2-PFDA | 113,906.81 | 50,758.10 | 152,274.30 | |
| J8290-FS(0) | VC-CS94-DW05-0918 | 10/6/18 2:10 | 13C2-PFDA | 100,436.00 | 50,758.10 | 152,274.30 | |
| J8290-FS-D(3) | VC-CS94-DW05-0918 | 10/6/18 2:21 | 13C2-PFDA | 95,729.61 | 50,758.10 | 152,274.30 | |
| J8290-FS-D(5) | VC-CS94-DW05-0918 | 10/6/18 2:32 | 13C2-PFDA | 108,619.18 | 50,758.10 | 152,274.30 | |
| J8288-FS(0) | VC-CS94-DW03-0918 | 10/6/18 2:43 | 13C2-PFDA | 99,553.73 | 50,758.10 | 152,274.30 | |
| J8288-FS-D(3) | VC-CS94-DW03-0918 | 10/6/18 2:54 | 13C2-PFDA | 98,554.96 | 50,758.10 | 152,274.30 | |
| J8286-FS(0) | VC-CS94-DW01P-0918 | 10/6/18 3:05 | 13C2-PFDA | 93,408.56 | 50,758.10 | 152,274.30 | |
| J8286-FS-D(3) | VC-CS94-DW01P-0918 | 10/6/18 3:15 | 13C2-PFDA | 100,862.29 | 50,758.10 | 152,274.30 | |
| J8286-FS-D(5) | VC-CS94-DW01P-0918 | 10/6/18 3:26 | 13C2-PFDA | 106,279.89 | 50,758.10 | 152,274.30 | |
| J8386-FS-D(7) | VC-CS94-DW01P-0918 | 10/6/18 3:37 | 13C2-PFDA | 97,528.40 | 50,758.10 | 152,274.30 | |
| J8386-FS-D(9) | VC-CS94-DW01P-0918 | 10/6/18 3:48 | 13C2-PFDA | 112,614.54 | 50,758.10 | 152,274.30 | |
| KB76 CCV | CCV | 10/6/18 3:59 | 13C2-PFDA | 111,859.63 | 50,758.10 | 152,274.30 | |
| J8320-FS(0)) | VC-PM323-324-DW01P-0918 | 10/6/18 4:21 | 13C2-PFDA | 92,682.62 | 50,758.10 | 152,274.30 | |
| J8320-FS-D(3) | VC-PM323-324-DW01P-0918 | 10/6/18 4:32 | 13C2-PFDA | 93,448.78 | 50,758.10 | 152,274.30 | |
| J8320-FS-D(5) | VC-PM323-324-DW01P-0918 | 10/6/18 4:42 | 13C2-PFDA | 94,660.91 | 50,758.10 | 152,274.30 | |
| ~~J8320-FS-D(7)~~ | ~~VC-PM323-324-DW01P-0918~~ | ~~10/6/18 4:53~~ | ~~13C2-PFDA~~ | ~~106,607.49~~ | ~~50,758.10~~ | ~~152,274.30~~ | |
| ~~J8320-FS-D(9)~~ | ~~VC-PM323-324-DW01P-0918~~ | ~~10/6/18 5:04~~ | ~~13C2-PFDA~~ | ~~111,808.09~~ | ~~50,758.10~~ | ~~152,274.30~~ | |
| J8337-FS(0) | VC-PM324-DW02-0918 | 10/6/18 5:15 | 13C2-PFDA | 98,362.01 | 50,758.10 | 152,274.30 | |
| J8337-FS-D(3) | VC-PM324-DW02-0918 | 10/6/18 5:26 | 13C2-PFDA | 96,759.05 | 50,758.10 | 152,274.30 | |
| J8337-FS-D(5) | VC-PM324-DW02-0918 | 10/6/18 5:37 | 13C2-PFDA | 93,981.69 | 50,758.10 | 152,274.30 | |
| J8337-FS-D(7) | VC-PM324-DW02-0918 | 10/6/18 5:48 | 13C2-PFDA | 92,129.16 | 50,758.10 | 152,274.30 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB78 | L6 | 10/5/18 11:22 | 13C2-PFDA | 101,516.20 | 50,758.10 | 152,274.30 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB77 CCV | CCV | 10/6/18 5:59 | 13C2-PFDA | 100,293.93 | 50,758.10 | 152,274.30 | |
| J8321-FS(0) | VC-PM323-324-DW02-0918 | 10/6/18 6:20 | 13C2-PFDA | 97,853.49 | 50,758.10 | 152,274.30 | |
| J8321-FS-D(3) | VC-PM323-324-DW02-0918 | 10/6/18 6:31 | 13C2-PFDA | 98,279.60 | 50,758.10 | 152,274.30 | |
| J8321-FS-D(5) | VC-PM323-324-DW02-0918 | 10/6/18 6:42 | 13C2-PFDA | 106,408.76 | 50,758.10 | 152,274.30 | |
| J8321-FS-D(7) | VC-PM323-324-DW02-0918 | 10/6/18 6:53 | 13C2-PFDA | 104,585.34 | 50,758.10 | 152,274.30 | |
| J8321-FS-D(9) | VC-PM323-324-DW02-0918 | 10/6/18 7:04 | 13C2-PFDA | 110,963.19 | 50,758.10 | 152,274.30 | |
| J8289-FS(0) | VC-CS94-DW04-0918 | 10/6/18 7:15 | 13C2-PFDA | 93,882.29 | 50,758.10 | 152,274.30 | |
| J8289-FS-D(3) | VC-CS94-DW04-0918 | 10/6/18 7:26 | 13C2-PFDA | 107,551.62 | 50,758.10 | 152,274.30 | |
| KB76 CCV | CCV | 10/6/18 7:36 | 13C2-PFDA | 103,393.10 | 50,758.10 | 152,274.30 | |
| J8330-FS(0) | VC-PM323-DW02-0918 | 10/6/18 7:58 | 13C2-PFDA | 89,829.72 | 50,758.10 | 152,274.30 | |
| J8330-FS-D(3) | VC-PM323-DW02-0918 | 10/6/18 8:09 | 13C2-PFDA | 104,214.64 | 50,758.10 | 152,274.30 | |
| J8330-FS-D(5) | VC-PM323-DW02-0918 | 10/6/18 8:20 | 13C2-PFDA | 119,102.83 | 50,758.10 | 152,274.30 | |
| J8330-FS-D(7) | VC-PM323-DW02-0918 | 10/6/18 8:31 | 13C2-PFDA | 89,015.99 | 50,758.10 | 152,274.30 | |
| J8331-FS(0) | VC-PM323-DW02P-0918 | 10/6/18 8:42 | 13C2-PFDA | 86,544.12 | 50,758.10 | 152,274.30 | |
| ~~J8331-FS-D(3)~~ | ~~VC-PM323-DW02P-0918~~ | ~~10/6/18 8:52~~ | ~~13C2-PFDA~~ | ~~97,939.96~~ | ~~50,758.10~~ | ~~152,274.30~~ | |
| J8331-FS-D(5) | VC-PM323-DW02P-0918 | 10/6/18 9:03 | 13C2-PFDA | 92,860.24 | 50,758.10 | 152,274.30 | |
| J8331-FS-D(7) | VC-PM323-DW02P-0918 | 10/6/18 9:14 | 13C2-PFDA | 88,143.61 | 50,758.10 | 152,274.30 | |
| KB77 CCV | CCV | 10/6/18 9:25 | 13C2-PFDA | 129,778.80 | 50,758.10 | 152,274.30 | |
| J8325MS-FS(0) | VC-PM323-324-DW02-0918-MS | 10/6/18 9:47 | 13C2-PFDA | 95,810.02 | 50,758.10 | 152,274.30 | |
| J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/6/18 9:58 | 13C2-PFDA | 102,239.20 | 50,758.10 | 152,274.30 | |
| J8325MS-FS-D(5) | VC-PM323-324-DW02-0918-MS | 10/6/18 10:09 | 13C2-PFDA | 107,629.83 | 50,758.10 | 152,274.30 | |
| J8325MS-FS-D(7) | VC-PM323-324-DW02-0918-MS | 10/6/18 10:20 | 13C2-PFDA | 92,724.06 | 50,758.10 | 152,274.30 | |
| J8326MSD-FS(0) | VC-PM323-324-DW02-0918-MSD | 10/6/18 10:30 | 13C2-PFDA | 100,294.80 | 50,758.10 | 152,274.30 | |
| ~~J8326MSD-FS-D(3)~~ | ~~VC-PM323-324-DW02-0918-MSD~~ | ~~10/6/18 10:41~~ | ~~13C2-PFDA~~ | ~~18,108.98~~ | ~~50,758.10~~ | ~~152,274.30~~ | ~~N~~ |
| J8326MSD-FS-D(5) | VC-PM323-324-DW02-0918-MSD | 10/6/18 10:52 | 13C2-PFDA | 93,029.95 | 50,758.10 | 152,274.30 | |
| J8326MSD-FS-D(7) | VC-PM323-324-DW02-0918-MSD | 10/6/18 11:03 | 13C2-PFDA | 102,065.04 | 50,758.10 | 152,274.30 | |
| KB76 CCV | CCV | 10/6/18 11:14 | 13C2-PFDA | 103,585.05 | 50,758.10 | 152,274.30 | |
| J8322-FS(0) | VC-PM323-324-DW03-0918 | 10/6/18 11:36 | 13C2-PFDA | 80,116.02 | 50,758.10 | 152,274.30 | |
| ~~J8322-FS-D(3)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/6/18 11:47~~ | ~~13C2-PFDA~~ | ~~94,807.94~~ | ~~50,758.10~~ | ~~152,274.30~~ | |
| ~~J8322-FS-D(5)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/6/18 11:57~~ | ~~13C2-PFDA~~ | ~~25,043.91~~ | ~~50,758.10~~ | ~~152,274.30~~ | ~~N~~ |
| J8322-FS-D(7) | VC-PM323-324-DW03-0918 | 10/6/18 12:08 | 13C2-PFDA | 93,774.88 | 50,758.10 | 152,274.30 | |
| KB75 CCV | CCV | 10/6/18 12:30 | 13C2-PFDA | 105,298.91 | 50,758.10 | 152,274.30 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB78 | L6 | 10/5/18 11:22 | 13C4-PFOS | 29,874.04 | 14,937.02 | 44,811.06 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/5/18 10:28 | 13C4-PFOS | 31,921.29 | 14,937.02 | 44,811.06 | |
| KB74 | L2 | 10/5/18 10:39 | 13C4-PFOS | 32,120.24 | 14,937.02 | 44,811.06 | |
| KB75 | L3 | 10/5/18 10:50 | 13C4-PFOS | 25,991.21 | 14,937.02 | 44,811.06 | |
| KB76 | L4 | 10/5/18 11:01 | 13C4-PFOS | 29,531.69 | 14,937.02 | 44,811.06 | |
| KB77 | L5 | 10/5/18 11:12 | 13C4-PFOS | 25,878.77 | 14,937.02 | 44,811.06 | |
| KB78 | L6 | 10/5/18 11:22 | 13C4-PFOS | 29,874.04 | 14,937.02 | 44,811.06 | |
| KB79 | L7 | 10/5/18 11:33 | 13C4-PFOS | 26,878.59 | 14,937.02 | 44,811.06 | |
| KB80 IB | Instrument Blank | 10/5/18 11:44 | 13C4-PFOS | 31,052.09 | 14,937.02 | 44,811.06 | |
| KB81 ICC | ICC | 10/5/18 11:55 | 13C4-PFOS | 33,030.83 | 14,937.02 | 44,811.06 | |
| KB77 CCV | CCV | 10/5/18 21:28 | 13C4-PFOS | 28,259.42 | 14,937.02 | 44,811.06 | |
| CR884PB-FS(0) | Procedural Blank | 10/5/18 21:50 | 13C4-PFOS | 28,906.71 | 14,937.02 | 44,811.06 | |
| CR885LCS-FS(0) | Laboratory Control Sample | 10/5/18 22:00 | 13C4-PFOS | 31,092.96 | 14,937.02 | 44,811.06 | |
| J8308-FS(0) | VC-SO-FB04-092118 | 10/5/18 22:11 | 13C4-PFOS | 28,865.30 | 14,937.02 | 44,811.06 | |
| J8324-FS(0) | VC-AQ-EB03-092018 | 10/5/18 22:22 | 13C4-PFOS | 32,450.77 | 14,937.02 | 44,811.06 | |
| J8323-FS(0) | VC-AQ-FB03-092018 | 10/5/18 22:33 | 13C4-PFOS | 29,041.60 | 14,937.02 | 44,811.06 | |
| ~~J8285-FS(0)~~ | ~~VC-CS94-DW01-0918~~ | ~~10/5/18 22:44~~ | ~~13C4-PFOS~~ | ~~10,279.69~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8285-FS-D(3) | VC-CS94-DW01-0918 | 10/5/18 22:55 | 13C4-PFOS | 21,117.72 | 14,937.02 | 44,811.06 | |
| J8285-FS-D(5) | VC-CS94-DW01-0918 | 10/5/18 23:06 | 13C4-PFOS | 21,024.11 | 14,937.02 | 44,811.06 | |
| J8285-FS-D(7) | VC-CS94-DW01-0918 | 10/5/18 23:16 | 13C4-PFOS | 29,490.24 | 14,937.02 | 44,811.06 | |
| J8285-FS-D(9) | VC-CS94-DW01-0918 | 10/5/18 23:27 | 13C4-PFOS | 23,705.96 | 14,937.02 | 44,811.06 | |
| KB76 CCV | CCV | 10/5/18 23:38 | 13C4-PFOS | 31,991.59 | 14,937.02 | 44,811.06 | |
| J8309-FS(0) | VC-SO-EB04-092118 | 10/6/18 0:00 | 13C4-PFOS | 27,356.63 | 14,937.02 | 44,811.06 | |
| ~~J8319-FS(0)~~ | ~~VC-PM323-324-DW01-0918~~ | ~~10/6/18 0:11~~ | ~~13C4-PFOS~~ | ~~8,849.52~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8319-FS-D(3) | VC-PM323-324-DW01-0918 | 10/6/18 0:22 | 13C4-PFOS | 15,805.94 | 14,937.02 | 44,811.06 | |
| J8319-FS-D(5) | VC-PM323-324-DW01-0918 | 10/6/18 0:32 | 13C4-PFOS | 21,837.92 | 14,937.02 | 44,811.06 | |
| ~~J8319-FS-D(7)~~ | ~~VC-PM323-324-DW01-0918~~ | ~~10/6/18 0:43~~ | ~~13C4-PFOS~~ | ~~24,531.73~~ | ~~14,937.02~~ | ~~44,811.06~~ | |
| J8319-FS-D(9) | VC-PM323-324-DW01-0918 | 10/6/18 0:54 | 13C4-PFOS | 29,555.68 | 14,937.02 | 44,811.06 | |
| ~~J8287-FS(0)~~ | ~~VC-CS94-DW02-0918~~ | ~~10/6/18 1:05~~ | ~~13C4-PFOS~~ | ~~12,122.77~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8287-FS-D(3) | VC-CS94-DW02-0918 | 10/6/18 1:16 | 13C4-PFOS | 17,401.88 | 14,937.02 | 44,811.06 | |
| ~~J8287-FS-D(5)~~ | ~~VC-CS94-DW02-0918~~ | ~~10/6/18 1:27~~ | ~~13C4-PFOS~~ | ~~19,355.73~~ | ~~14,937.02~~ | ~~44,811.06~~ | |
| J8287-FS-D(7) | VC-CS94-DW02-0918 | 10/6/18 1:38 | 13C4-PFOS | 23,933.46 | 14,937.02 | 44,811.06 | |
| KB77 CCV | CCV | 10/6/18 1:49 | 13C4-PFOS | 33,411.74 | 14,937.02 | 44,811.06 | |
| J8290-FS(0) | VC-CS94-DW05-0918 | 10/6/18 2:10 | 13C4-PFOS | 22,085.12 | 14,937.02 | 44,811.06 | |
| J8290-FS-D(3) | VC-CS94-DW05-0918 | 10/6/18 2:21 | 13C4-PFOS | 23,301.77 | 14,937.02 | 44,811.06 | |
| J8290-FS-D(5) | VC-CS94-DW05-0918 | 10/6/18 2:32 | 13C4-PFOS | 30,608.41 | 14,937.02 | 44,811.06 | |
| J8288-FS(0) | VC-CS94-DW03-0918 | 10/6/18 2:43 | 13C4-PFOS | 20,169.19 | 14,937.02 | 44,811.06 | |
| J8288-FS-D(3) | VC-CS94-DW03-0918 | 10/6/18 2:54 | 13C4-PFOS | 29,914.33 | 14,937.02 | 44,811.06 | |
| ~~J8286-FS(0)~~ | ~~VC-CS94-DW01P-0918~~ | ~~10/6/18 3:05~~ | ~~13C4-PFOS~~ | ~~7,326.30~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8286-FS-D(3) | VC-CS94-DW01P-0918 | 10/6/18 3:15 | 13C4-PFOS | 14,942.41 | 14,937.02 | 44,811.06 | |
| J8286-FS-D(5) | VC-CS94-DW01P-0918 | 10/6/18 3:26 | 13C4-PFOS | 23,108.44 | 14,937.02 | 44,811.06 | |
| J8386-FS-D(7) | VC-CS94-DW01P-0918 | 10/6/18 3:37 | 13C4-PFOS | 23,597.06 | 14,937.02 | 44,811.06 | |
| J8386-FS-D(9) | VC-CS94-DW01P-0918 | 10/6/18 3:48 | 13C4-PFOS | 33,630.87 | 14,937.02 | 44,811.06 | |
| KB76 CCV | CCV | 10/6/18 3:59 | 13C4-PFOS | 32,602.79 | 14,937.02 | 44,811.06 | |
| ~~J8320-FS(0))~~ | ~~VC-PM323-324-DW01P-0918~~ | ~~10/6/18 4:21~~ | ~~13C4-PFOS~~ | ~~7,809.20~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8320-FS-D(3) | VC-PM323-324-DW01P-0918 | 10/6/18 4:32 | 13C4-PFOS | 20,433.02 | 14,937.02 | 44,811.06 | |
| J8320-FS-D(5) | VC-PM323-324-DW01P-0918 | 10/6/18 4:42 | 13C4-PFOS | 21,816.42 | 14,937.02 | 44,811.06 | |
| ~~J8320-FS-D(7)~~ | ~~VC-PM323-324-DW01P-0918~~ | ~~10/6/18 4:53~~ | ~~13C4-PFOS~~ | ~~25,509.72~~ | ~~14,937.02~~ | ~~44,811.06~~ | |
| ~~J8320-FS-D(9)~~ | ~~VC-PM323-324-DW01P-0918~~ | ~~10/6/18 5:04~~ | ~~13C4-PFOS~~ | ~~33,872.20~~ | ~~14,937.02~~ | ~~44,811.06~~ | |
| J8337-FS(0) | VC-PM324-DW02-0918 | 10/6/18 5:15 | 13C4-PFOS | 19,040.55 | 14,937.02 | 44,811.06 | |
| J8337-FS-D(3) | VC-PM324-DW02-0918 | 10/6/18 5:26 | 13C4-PFOS | 28,540.46 | 14,937.02 | 44,811.06 | |
| J8337-FS-D(5) | VC-PM324-DW02-0918 | 10/6/18 5:37 | 13C4-PFOS | 28,001.68 | 14,937.02 | 44,811.06 | |
| J8337-FS-D(7) | VC-PM324-DW02-0918 | 10/6/18 5:48 | 13C4-PFOS | 28,870.51 | 14,937.02 | 44,811.06 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB78 | L6 | 10/5/18 11:22 | 13C4-PFOS | 29,874.04 | 14,937.02 | 44,811.06 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB77 CCV | CCV | 10/6/18 5:59 | 13C4-PFOS | 30,979.45 | 14,937.02 | 44,811.06 | |
| ~~J8321-FS(0)~~ | ~~VC-PM323-324-DW02-0918~~ | ~~10/6/18 6:20~~ | ~~13C4-PFOS~~ | ~~12,444.16~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8321-FS-D(3) | VC-PM323-324-DW02-0918 | 10/6/18 6:31 | 13C4-PFOS | 20,949.19 | 14,937.02 | 44,811.06 | |
| J8321-FS-D(5) | VC-PM323-324-DW02-0918 | 10/6/18 6:42 | 13C4-PFOS | 26,469.21 | 14,937.02 | 44,811.06 | |
| J8321-FS-D(7) | VC-PM323-324-DW02-0918 | 10/6/18 6:53 | 13C4-PFOS | 25,011.37 | 14,937.02 | 44,811.06 | |
| J8321-FS-D(9) | VC-PM323-324-DW02-0918 | 10/6/18 7:04 | 13C4-PFOS | 29,414.65 | 14,937.02 | 44,811.06 | |
| J8289-FS(0) | VC-CS94-DW04-0918 | 10/6/18 7:15 | 13C4-PFOS | 22,044.15 | 14,937.02 | 44,811.06 | |
| J8289-FS-D(3) | VC-CS94-DW04-0918 | 10/6/18 7:26 | 13C4-PFOS | 32,638.04 | 14,937.02 | 44,811.06 | |
| KB76 CCV | CCV | 10/6/18 7:36 | 13C4-PFOS | 29,419.36 | 14,937.02 | 44,811.06 | |
| J8330-FS(0) | VC-PM323-DW02-0918 | 10/6/18 7:58 | 13C4-PFOS | 18,473.77 | 14,937.02 | 44,811.06 | |
| J8330-FS-D(3) | VC-PM323-DW02-0918 | 10/6/18 8:09 | 13C4-PFOS | 30,200.89 | 14,937.02 | 44,811.06 | |
| J8330-FS-D(5) | VC-PM323-DW02-0918 | 10/6/18 8:20 | 13C4-PFOS | 33,213.61 | 14,937.02 | 44,811.06 | |
| J8330-FS-D(7) | VC-PM323-DW02-0918 | 10/6/18 8:31 | 13C4-PFOS | 27,680.00 | 14,937.02 | 44,811.06 | |
| J8331-FS(0) | VC-PM323-DW02P-0918 | 10/6/18 8:42 | 13C4-PFOS | 23,217.19 | 14,937.02 | 44,811.06 | |
| ~~J8331-FS-D(3)~~ | ~~VC-PM323-DW02P-0918~~ | ~~10/6/18 8:52~~ | ~~13C4-PFOS~~ | ~~28,073.02~~ | ~~14,937.02~~ | ~~44,811.06~~ | |
| J8331-FS-D(5) | VC-PM323-DW02P-0918 | 10/6/18 9:03 | 13C4-PFOS | 29,387.83 | 14,937.02 | 44,811.06 | |
| J8331-FS-D(7) | VC-PM323-DW02P-0918 | 10/6/18 9:14 | 13C4-PFOS | 25,950.05 | 14,937.02 | 44,811.06 | |
| KB77 CCV | CCV | 10/6/18 9:25 | 13C4-PFOS | 36,448.54 | 14,937.02 | 44,811.06 | |
| J8325MS-FS(0) | VC-PM323-324-DW02-0918-MS | 10/6/18 9:47 | 13C4-PFOS | 15,303.33 | 14,937.02 | 44,811.06 | |
| J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/6/18 9:58 | 13C4-PFOS | 23,320.11 | 14,937.02 | 44,811.06 | |
| J8325MS-FS-D(5) | VC-PM323-324-DW02-0918-MS | 10/6/18 10:09 | 13C4-PFOS | 29,337.00 | 14,937.02 | 44,811.06 | |
| J8325MS-FS-D(7) | VC-PM323-324-DW02-0918-MS | 10/6/18 10:20 | 13C4-PFOS | 26,366.14 | 14,937.02 | 44,811.06 | |
| J8326MSD-FS(0) | VC-PM323-324-DW02-0918-MSD | 10/6/18 10:30 | 13C4-PFOS | 17,820.92 | 14,937.02 | 44,811.06 | |
| ~~J8326MSD-FS-D(3)~~ | ~~VC-PM323-324-DW02-0918-MSD~~ | ~~10/6/18 10:41~~ | ~~13C4-PFOS~~ | ~~5,202.04~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8326MSD-FS-D(5) | VC-PM323-324-DW02-0918-MSD | 10/6/18 10:52 | 13C4-PFOS | 23,994.29 | 14,937.02 | 44,811.06 | |
| J8326MSD-FS-D(7) | VC-PM323-324-DW02-0918-MSD | 10/6/18 11:03 | 13C4-PFOS | 30,539.59 | 14,937.02 | 44,811.06 | |
| KB76 CCV | CCV | 10/6/18 11:14 | 13C4-PFOS | 29,491.21 | 14,937.02 | 44,811.06 | |
| J8322-FS(0) | VC-PM323-324-DW03-0918 | 10/6/18 11:36 | 13C4-PFOS | 3,085.15 | 14,937.02 | 44,811.06 | ~~N~~ |
| ~~J8322-FS-D(3)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/6/18 11:47~~ | ~~13C4-PFOS~~ | ~~15,764.80~~ | ~~14,937.02~~ | ~~44,811.06~~ | |
| ~~J8322-FS-D(5)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/6/18 11:57~~ | ~~13C4-PFOS~~ | ~~4,992.23~~ | ~~14,937.02~~ | ~~44,811.06~~ | ~~N~~ |
| J8322-FS-D(7) | VC-PM323-324-DW03-0918 | 10/6/18 12:08 | 13C4-PFOS | 22,904.21 | 14,937.02 | 44,811.06 | |
| KB75 CCV | CCV | 10/6/18 12:30 | 13C4-PFOS | 29,386.81 | 14,937.02 | 44,811.06 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB77 | L5 | 10/8/18 16:23 | 13C2-PFOA | 74,719.21 | 37,359.61 | 112,078.82 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/8/18 15:40 | 13C2-PFOA | 86,591.46 | 37,359.61 | 112,078.82 | |
| KB74 | L2 | 10/8/18 15:51 | 13C2-PFOA | 87,760.75 | 37,359.61 | 112,078.82 | |
| KB75 | L3 | 10/8/18 16:01 | 13C2-PFOA | 81,109.93 | 37,359.61 | 112,078.82 | |
| KB76 | L4 | 10/8/18 16:12 | 13C2-PFOA | 89,899.45 | 37,359.61 | 112,078.82 | |
| KB77 | L5 | 10/8/18 16:23 | 13C2-PFOA | 74,719.21 | 37,359.61 | 112,078.82 | |
| KB78 | L6 | 10/8/18 16:34 | 13C2-PFOA | 71,860.81 | 37,359.61 | 112,078.82 | |
| KB79 | L7 | 10/8/18 16:45 | 13C2-PFOA | 75,346.19 | 37,359.61 | 112,078.82 | |
| KB80 IB | Instrument Blank | 10/8/18 16:56 | 13C2-PFOA | 80,851.75 | 37,359.61 | 112,078.82 | |
| KB81 ICC | ICC | 10/8/18 17:07 | 13C2-PFOA | 95,393.87 | 37,359.61 | 112,078.82 | |
| KB75 ISC | ISC | 10/10/18 18:09 | 13C2-PFOA | 77,621.72 | 37,359.61 | 112,078.82 | |
| KB80 IB | Instrument Blank | 10/10/18 18:20 | 13C2-PFOA | 68,251.14 | 37,359.61 | 112,078.82 | |
| KB77 CCV | CCV | 10/10/18 20:08 | 13C2-PFOA | 70,347.29 | 37,359.61 | 112,078.82 | |
| J8286-FS-D(11) | VC-CS94-DW01P-0918 | 10/10/18 20:30 | 13C2-PFOA | 112,031.75 | 37,359.61 | 112,078.82 | |
| J8287-FS-D(9) | VC-CS94-DW02-0918 | 10/10/18 20:41 | 13C2-PFOA | 112,054.91 | 37,359.61 | 112,078.82 | |
| J8319-FS-D(11) | VC-PM323-324-DW01-0918 | 10/10/18 20:52 | 13C2-PFOA | 96,364.28 | 37,359.61 | 112,078.82 | |
| J8320-FS-D(11) | VC-PM323-324-DW01P-0918 | 10/10/18 21:03 | 13C2-PFOA | 97,099.78 | 37,359.61 | 112,078.82 | |
| J8321-FS-D(11) | VC-PM323-324-DW02-0918 | 10/10/18 21:14 | 13C2-PFOA | 94,611.72 | 37,359.61 | 112,078.82 | |
| J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/10/18 21:24 | 13C2-PFOA | 67,369.55 | 37,359.61 | 112,078.82 | |
| J8325MS-FS-D(9) | VC-PM323-324-DW02-0918-MS | 10/10/18 21:35 | 13C2-PFOA | 98,596.36 | 37,359.61 | 112,078.82 | |
| J8326MSD-FS-D(3) | VC-PM323-324-DW02-0918-MSD | 10/10/18 21:46 | 13C2-PFOA | 81,116.35 | 37,359.61 | 112,078.82 | |
| J8326MSD-FS-D(9) | VC-PM323-324-DW02-0918-MSD | 10/10/18 21:57 | 13C2-PFOA | 105,141.55 | 37,359.61 | 112,078.82 | |
| KB76 CCV | CCV | 10/10/18 22:19 | 13C2-PFOA | 69,451.83 | 37,359.61 | 112,078.82 | |
| ~~J8322-FS-D(5)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/10/18 22:30~~ | ~~13C2-PFOA~~ | ~~84,556.80~~ | ~~37,359.61~~ | ~~112,078.82~~ | |
| J8322-FS-D(9) | VC-PM323-324-DW03-0918 | 10/10/18 22:41 | 13C2-PFOA | 106,595.43 | 37,359.61 | 112,078.82 | |
| ~~J8330-FS-D(5)~~ | ~~VC-PM323-DW02-0918~~ | ~~10/10/18 22:51~~ | ~~13C2-PFOA~~ | ~~89,092.15~~ | ~~37,359.61~~ | ~~112,078.82~~ | |
| ~~J8289-FS-D(5)~~ | ~~VC-CS94-DW04-0918~~ | ~~10/10/18 23:02~~ | ~~13C2-PFOA~~ | ~~114,354.28~~ | ~~37,359.61~~ | ~~112,078.82~~ | ~~N~~ |
| ~~J8337-FS-D(9)~~ | ~~VC-PM324-DW02-0918~~ | ~~10/10/18 23:13~~ | ~~13C2-PFOA~~ | ~~82,068.50~~ | ~~37,359.61~~ | ~~112,078.82~~ | |
| KB77 CCV | CCV | 10/10/18 23:35 | 13C2-PFOA | 77,816.94 | 37,359.61 | 112,078.82 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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It can be done

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB77 | L5 | 10/8/18 16:23 | 13C2-PFDA | 86,580.45 | 43,290.23 | 129,870.68 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/8/18 15:40 | 13C2-PFDA | 101,004.57 | 43,290.23 | 129,870.68 | |
| KB74 | L2 | 10/8/18 15:51 | 13C2-PFDA | 106,217.49 | 43,290.23 | 129,870.68 | |
| KB75 | L3 | 10/8/18 16:01 | 13C2-PFDA | 100,766.55 | 43,290.23 | 129,870.68 | |
| KB76 | L4 | 10/8/18 16:12 | 13C2-PFDA | 113,933.91 | 43,290.23 | 129,870.68 | |
| KB77 | L5 | 10/8/18 16:23 | 13C2-PFDA | 86,580.45 | 43,290.23 | 129,870.68 | |
| KB78 | L6 | 10/8/18 16:34 | 13C2-PFDA | 82,606.87 | 43,290.23 | 129,870.68 | |
| KB79 | L7 | 10/8/18 16:45 | 13C2-PFDA | 92,416.04 | 43,290.23 | 129,870.68 | |
| KB80 IB | Instrument Blank | 10/8/18 16:56 | 13C2-PFDA | 85,865.67 | 43,290.23 | 129,870.68 | |
| KB81 ICC | ICC | 10/8/18 17:07 | 13C2-PFDA | 95,331.22 | 43,290.23 | 129,870.68 | |
| KB75 ISC | ISC | 10/10/18 18:09 | 13C2-PFDA | 88,975.02 | 43,290.23 | 129,870.68 | |
| KB80 IB | Instrument Blank | 10/10/18 18:20 | 13C2-PFDA | 76,092.73 | 43,290.23 | 129,870.68 | |
| KB77 CCV | CCV | 10/10/18 20:08 | 13C2-PFDA | 82,309.54 | 43,290.23 | 129,870.68 | |
| J8286-FS-D(11) | VC-CS94-DW01P-0918 | 10/10/18 20:30 | 13C2-PFDA | 123,371.06 | 43,290.23 | 129,870.68 | |
| J8287-FS-D(9) | VC-CS94-DW02-0918 | 10/10/18 20:41 | 13C2-PFDA | 123,270.34 | 43,290.23 | 129,870.68 | |
| J8319-FS-D(11) | VC-PM323-324-DW01-0918 | 10/10/18 20:52 | 13C2-PFDA | 107,413.33 | 43,290.23 | 129,870.68 | |
| J8320-FS-D(11) | VC-PM323-324-DW01P-0918 | 10/10/18 21:03 | 13C2-PFDA | 101,863.96 | 43,290.23 | 129,870.68 | |
| J8321-FS-D(11) | VC-PM323-324-DW02-0918 | 10/10/18 21:14 | 13C2-PFDA | 101,758.40 | 43,290.23 | 129,870.68 | |
| J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/10/18 21:24 | 13C2-PFDA | 79,982.00 | 43,290.23 | 129,870.68 | |
| J8325MS-FS-D(9) | VC-PM323-324-DW02-0918-MS | 10/10/18 21:35 | 13C2-PFDA | 113,616.06 | 43,290.23 | 129,870.68 | |
| J8326MSD-FS-D(3) | VC-PM323-324-DW02-0918-MSD | 10/10/18 21:46 | 13C2-PFDA | 90,641.50 | 43,290.23 | 129,870.68 | |
| J8326MSD-FS-D(9) | VC-PM323-324-DW02-0918-MSD | 10/10/18 21:57 | 13C2-PFDA | 119,300.98 | 43,290.23 | 129,870.68 | |
| KB76 CCV | CCV | 10/10/18 22:19 | 13C2-PFDA | 84,966.77 | 43,290.23 | 129,870.68 | |
| ~~J8322-FS-D(5)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/10/18 22:30~~ | ~~13C2-PFDA~~ | ~~108,627.38~~ | ~~43,290.23~~ | ~~129,870.68~~ | |
| J8322-FS-D(9) | VC-PM323-324-DW03-0918 | 10/10/18 22:41 | 13C2-PFDA | 119,545.13 | 43,290.23 | 129,870.68 | |
| ~~J8330-FS-D(5)~~ | ~~VC-PM323-DW02-0918~~ | ~~10/10/18 22:51~~ | ~~13C2-PFDA~~ | ~~102,794.02~~ | ~~43,290.23~~ | ~~129,870.68~~ | |
| J8289-FS-D(5) | VC-CS94-DW04-0918 | 10/10/18 23:02 | 13C2-PFDA | 124,616.21 | 43,290.23 | 129,870.68 | |
| ~~J8337-FS-D(9)~~ | ~~VC-PM324-DW02-0918~~ | ~~10/10/18 23:13~~ | ~~13C2-PFDA~~ | ~~90,906.20~~ | ~~43,290.23~~ | ~~129,870.68~~ | |
| KB77 CCV | CCV | 10/10/18 23:35 | 13C2-PFDA | 87,499.20 | 43,290.23 | 129,870.68 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB77 | L5 | 10/8/18 16:23 | 13C4-PFOS | 25,614.67 | 12,807.34 | 38,422.01 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/8/18 15:40 | 13C4-PFOS | 30,187.37 | 12,807.34 | 38,422.01 | |
| KB74 | L2 | 10/8/18 15:51 | 13C4-PFOS | 30,121.59 | 12,807.34 | 38,422.01 | |
| KB75 | L3 | 10/8/18 16:01 | 13C4-PFOS | 27,324.91 | 12,807.34 | 38,422.01 | |
| KB76 | L4 | 10/8/18 16:12 | 13C4-PFOS | 32,065.20 | 12,807.34 | 38,422.01 | |
| KB77 | L5 | 10/8/18 16:23 | 13C4-PFOS | 25,614.67 | 12,807.34 | 38,422.01 | |
| KB78 | L6 | 10/8/18 16:34 | 13C4-PFOS | 27,558.53 | 12,807.34 | 38,422.01 | |
| KB79 | L7 | 10/8/18 16:45 | 13C4-PFOS | 26,374.66 | 12,807.34 | 38,422.01 | |
| KB80 IB | Instrument Blank | 10/8/18 16:56 | 13C4-PFOS | 28,550.52 | 12,807.34 | 38,422.01 | |
| KB81 ICC | ICC | 10/8/18 17:07 | 13C4-PFOS | 30,554.31 | 12,807.34 | 38,422.01 | |
| KB75 ISC | ISC | 10/10/18 18:09 | 13C4-PFOS | 26,079.06 | 12,807.34 | 38,422.01 | |
| KB80 IB | Instrument Blank | 10/10/18 18:20 | 13C4-PFOS | 25,916.97 | 12,807.34 | 38,422.01 | |
| KB77 CCV | CCV | 10/10/18 20:08 | 13C4-PFOS | 26,577.55 | 12,807.34 | 38,422.01 | |
| J8286-FS-D(11) | VC-CS94-DW01P-0918 | 10/10/18 20:30 | 13C4-PFOS | 33,769.29 | 12,807.34 | 38,422.01 | |
| J8287-FS-D(9) | VC-CS94-DW02-0918 | 10/10/18 20:41 | 13C4-PFOS | 34,708.29 | 12,807.34 | 38,422.01 | |
| J8319-FS-D(11) | VC-PM323-324-DW01-0918 | 10/10/18 20:52 | 13C4-PFOS | 29,828.63 | 12,807.34 | 38,422.01 | |
| J8320-FS-D(11) | VC-PM323-324-DW01P-0918 | 10/10/18 21:03 | 13C4-PFOS | 31,069.97 | 12,807.34 | 38,422.01 | |
| J8321-FS-D(11) | VC-PM323-324-DW02-0918 | 10/10/18 21:14 | 13C4-PFOS | 32,220.39 | 12,807.34 | 38,422.01 | |
| J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/10/18 21:24 | 13C4-PFOS | 19,761.58 | 12,807.34 | 38,422.01 | |
| J8325MS-FS-D(9) | VC-PM323-324-DW02-0918-MS | 10/10/18 21:35 | 13C4-PFOS | 33,755.42 | 12,807.34 | 38,422.01 | |
| J8326MSD-FS-D(3) | VC-PM323-324-DW02-0918-MSD | 10/10/18 21:46 | 13C4-PFOS | 23,813.92 | 12,807.34 | 38,422.01 | |
| J8326MSD-FS-D(9) | VC-PM323-324-DW02-0918-MSD | 10/10/18 21:57 | 13C4-PFOS | 34,133.60 | 12,807.34 | 38,422.01 | |
| KB76 CCV | CCV | 10/10/18 22:19 | 13C4-PFOS | 26,229.36 | 12,807.34 | 38,422.01 | |
| ~~J8322-FS-D(5)~~ | ~~VC-PM323-324-DW03-0918~~ | ~~10/10/18 22:30~~ | ~~13C4-PFOS~~ | ~~21,280.94~~ | ~~12,807.34~~ | ~~38,422.01~~ | |
| J8322-FS-D(9) | VC-PM323-324-DW03-0918 | 10/10/18 22:41 | 13C4-PFOS | 38,121.62 | 12,807.34 | 38,422.01 | |
| ~~J8330-FS-D(5)~~ | ~~VC-PM323-DW02-0918~~ | ~~10/10/18 22:51~~ | ~~13C4-PFOS~~ | ~~28,430.01~~ | ~~12,807.34~~ | ~~38,422.01~~ | |
| J8289-FS-D(5) | VC-CS94-DW04-0918 | 10/10/18 23:02 | 13C4-PFOS | 32,533.91 | 12,807.34 | 38,422.01 | |
| ~~J8337-FS-D(9)~~ | ~~VC-PM324-DW02-0918~~ | ~~10/10/18 23:13~~ | ~~13C4-PFOS~~ | ~~30,160.00~~ | ~~12,807.34~~ | ~~38,422.01~~ | |
| KB77 CCV | CCV | 10/10/18 23:35 | 13C4-PFOS | 27,719.09 | 12,807.34 | 38,422.01 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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It can be done

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB77 | L5 | 10/17/18 20:30 | 13C4-PFOS | 31,518.26 | 15,759.13 | 47,277.39 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/17/18 19:46 | 13C4-PFOS | 29,846.55 | 15,759.13 | 47,277.39 | |
| KB74 | L2 | 10/17/18 19:57 | 13C4-PFOS | 34,856.85 | 15,759.13 | 47,277.39 | |
| KB75 | L3 | 10/17/18 20:08 | 13C4-PFOS | 30,684.77 | 15,759.13 | 47,277.39 | |
| KB76 | L4 | 10/17/18 20:19 | 13C4-PFOS | 30,962.75 | 15,759.13 | 47,277.39 | |
| KB77 | L5 | 10/17/18 20:30 | 13C4-PFOS | 31,518.26 | 15,759.13 | 47,277.39 | |
| KB78 | L6 | 10/17/18 20:41 | 13C4-PFOS | 29,589.19 | 15,759.13 | 47,277.39 | |
| KB79 | L7 | 10/17/18 20:52 | 13C4-PFOS | 26,984.04 | 15,759.13 | 47,277.39 | |
| KB80 IB | Instrument Blank | 10/17/18 21:02 | 13C4-PFOS | 29,371.12 | 15,759.13 | 47,277.39 | |
| KB81 ICC | ICC | 10/17/18 21:13 | 13C4-PFOS | 33,690.55 | 15,759.13 | 47,277.39 | |
| KB76 CCV | CCV | 10/19/18 1:29 | 13C4-PFOS | 26,912.55 | 15,759.13 | 47,277.39 | |
| J8337-FS-D(13) | VC-PM324-DW02-0918 | 10/19/18 2:46 | 13C4-PFOS | 33,746.75 | 15,759.13 | 47,277.39 | |
| KB77 CCV | CCV | 10/19/18 2:56 | 13C4-PFOS | 25,262.39 | 15,759.13 | 47,277.39 | |

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

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It can be done

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper |
|---|---|---|---|---|---|---|
| KB78 | L6 | 10/17/18 20:41 | 13C4-PFOS | 29,589.19 | 14,794.60 | 44,383.79 |

| Sample Name | Sample ID | Analysis Date | Analyte | Area | Lower | Upper | Qualifier |
|---|---|---|---|---|---|---|---|
| KB73 | L1 | 10/17/18 19:46 | 13C4-PFOS | 29,846.55 | 14,794.60 | 44,383.79 | |
| KB74 | L2 | 10/17/18 19:57 | 13C4-PFOS | 34,856.85 | 14,794.60 | 44,383.79 | |
| KB75 | L3 | 10/17/18 20:08 | 13C4-PFOS | 30,684.77 | 14,794.60 | 44,383.79 | |
| KB76 | L4 | 10/17/18 20:19 | 13C4-PFOS | 30,962.75 | 14,794.60 | 44,383.79 | |
| KB77 | L5 | 10/17/18 20:30 | 13C4-PFOS | 31,518.26 | 14,794.60 | 44,383.79 | |
| KB78 | L6 | 10/17/18 20:41 | 13C4-PFOS | 29,589.19 | 14,794.60 | 44,383.79 | |
| KB79 | L7 | 10/17/18 20:52 | 13C4-PFOS | 26,984.04 | 14,794.60 | 44,383.79 | |
| KB80 IB | Instrument Blank | 10/17/18 21:02 | 13C4-PFOS | 29,371.12 | 14,794.60 | 44,383.79 | |
| KB81 ICC | ICC | 10/17/18 21:13 | 13C4-PFOS | 33,690.55 | 14,794.60 | 44,383.79 | |
| KB75 ISC | ISC | 10/19/18 18:16 | 13C4-PFOS | 31,112.11 | 14,794.60 | 44,383.79 | |
| KB80 IB | Instrument Blank | 10/19/18 18:27 | 13C4-PFOS | 28,447.31 | 14,794.60 | 44,383.79 | |
| KB77 CCV | CCV | 10/20/18 6:03 | 13C4-PFOS | 29,868.11 | 14,794.60 | 44,383.79 | |
| J8326MSD-FS(0) | VC-PM323-324-DW02-0918-MSD | 10/20/18 8:03 | 13C4-PFOS | 14,860.36 | 14,794.60 | 44,383.79 | |
| KB76 CCV | CCV | 10/20/18 8:24 | 13C4-PFOS | 30,606.62 | 14,794.60 | 44,383.79 | |

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Mass Spectral Acquisition Rate Report

Created with Analyst Reporter
Printed: 22/10/2018 11:59:28 AM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 11:33:45 AM | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 24 | >10 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 23 | >10 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 23 | >10 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 23 | >10 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 30 | >10 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 32 | >10 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 40 | >10 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 36 | >10 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 38 | >10 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 32 | >10 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 31 | >10 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 36 | >10 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 41 | >10 |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 37 | >10 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 51 | >10 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 40 | >10 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 64 | >10 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 39 | >10 |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 69 | >10 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 53 | >10 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 92 | >10 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 53 | >10 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 97 | >10 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 63 | >10 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 49 | >10 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 31 | >10 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 39 | >10 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 31 | >10 |

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Mass Spectral Acquisition Rate Report

Created with Analyst Reporter
Printed: 22/10/2018 11:58:42 AM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 11:33:45 AM | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 29 | >10 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 25 | >10 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 22 | >10 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 41 | >10 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 34 | >10 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 35 | >10 |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 23 | >10 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 39 | >10 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 31 | >10 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 40 | >10 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 31 | >10 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 35 | >10 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 26 | >10 |

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Mass Spectral Acquisition Rate Report

Created with Analyst Reporter
Printed: 22/10/2018 12:00:47 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 4:45:19 PM | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 51 | >10 |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 50 | >10 |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 25 | >10 |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 24 | >10 |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 33 | >10 |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 33 | >10 |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 54 | >10 |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 54 | >10 |
| PFOA_1 | 413.0 / 369.0 | 2.71 | 35 | >10 |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 36 | >10 |
| PFNA_1 | 463.0 / 419.0 | 3.11 | 47 | >10 |
| PFNA_2 | 463.0 / 219.0 | 3.11 | 47 | >10 |
| PFOS_1 | 499.0 / 80.0 | 3.11 | 46 | >10 |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 45 | >10 |
| PFDA_1 | 513.0 / 469.0 | 3.47 | 46 | >10 |
| PFDA_2 | 513.0 / 219.0 | 3.47 | 37 | >10 |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | 61 | >10 |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | 57 | >10 |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | 65 | >10 |
| PFDoA_2 | 613.0 / 319.0 | 4.08 | 71 | >10 |
| PFTrDA_1 | 663.0 / 619.0 | 4.33 | 82 | >10 |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | 75 | >10 |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | 97 | >10 |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | 65 | >10 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.62 | 36 | >10 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.62 | 35 | >10 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | 39 | >10 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | 25 | >10 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 4:45:19 PM | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 25 | >10 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 41 | >10 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 33 | >10 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 38 | >10 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 37 | >10 |
| 13C8-PFOA | 421.0 / 376.0 | 2.70 | 33 | >10 |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 34 | >10 |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 44 | >10 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.78 | 40 | >10 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 47 | >10 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 28 | >10 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 36 | >10 |
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 23 | >10 |

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Mass Spectral Acquisition Rate Report

Created with Analyst Reporter
Printed: 22/10/2018 12:03:16 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 8:52:06 PM | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 43 | >10 |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 45 | >10 |

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Mass Spectral Acquisition Rate Report

Created with Analyst Reporter
Printed: 22/10/2018 12:02:49 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 8:52:06 PM | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 33 | >10 |

Mass Spectral Acquisition Rate Report

Created with Analyst Reporter
Printed: 22/10/2018 12:04:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 8:52:06 PM | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | 31 | >10 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | 19 | >10 |

Mass Spectral Acquisition Rate Report

Created with Analyst Reporter
Printed: 22/10/2018 12:03:47 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 8:52:06 PM | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Spectra Acquisition Rate | Passing Range |
|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 27 | >10 |

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It can be done

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

| Analyte | CAS No. | Average (ng/L) | ST DEV | 2 Sigma | n |
|---|---|---|---|---|---|
| PFBA | 375-22-4 | 12.29 | 2.02 | 4.04 | 13 |
| PFPeA | 2706-90-3 | 10.73 | 1.51 | 3.02 | 9 |
| PFHxA | 307-24-4 | 9.93 | 1.30 | 2.60 | 39 |
| PFHpA | 375-85-9 | 9.42 | 1.57 | 3.14 | 39 |
| PFOA | 335-67-1 | 10.18 | 1.47 | 2.94 | 40 |
| PFNA | 375-95-1 | 9.64 | 1.15 | 2.30 | 39 |
| PFDA | 335-76-2 | 9.89 | 1.32 | 2.64 | 39 |
| PFUnA | 2058-94-8 | 9.86 | 1.31 | 2.62 | 39 |
| PFDoA | 307-55-1 | 10.75 | 1.29 | 2.58 | 39 |
| PFTrDA | 72629-94-8 | 11.18 | 1.54 | 3.08 | 39 |
| PFTeDA | 376-06-7 | 10.70 | 1.91 | 3.82 | 39 |
| NMeFOSAA | 2355-31-9 | 10.26 | 1.87 | 3.74 | 39 |
| NEtFOSAA | 2991-50-6 | 9.63 | 1.54 | 3.08 | 39 |
| PFOSA | 754-91-6 | 9.74 | 1.14 | 2.28 | 4 |
| PFBS | 375-73-5 | 10.05 | 1.44 | 2.88 | 40 |
| PFPeS | BDO-2114 | 9.80 | 0.96 | 1.92 | 5 |
| PFHxS | 355-46-4 | 9.76 | 1.40 | 2.80 | 39 |
| PFHpS | 375-99-6 | 10.96 | 0.96 | 1.92 | 10 |
| PFOS | 1763-23-1 | 10.09 | 1.36 | 2.72 | 38 |
| PFNS | 98789-57-2 | 9.34 | 1.10 | 2.20 | 4 |
| PFDS | 2806-15-7 | 10.13 | 1.88 | 3.76 | 9 |
| 4:2FTS | BDO-2205 | 11.03 | 1.26 | 2.52 | 9 |
| 6:2FTS | 27619-97-2 | 12.52 | 2.91 | 5.82 | 9 |
| 8:2FTS | 39108-34-4 | 12.11 | 2.54 | 5.08 | 9 |

# BATTELLE DETECTION LIMITS FOR PFAS IN NON-POTABLE WATER

Analytical SOP 5-369
Extraction SOP 5-370

PFAS by LC-MS/MS Compliant with QSM 5.1 Compliant Table B-15

| Analyte | CAS No. | MDL (ng/L) | LOD (ng/L) | LOQ (ng/L) |
|---|---|---|---|---|
| ***PFBA*** | 375-22-4 | 0.14 | 0.5 | 5.0 |
| ***PFPeA*** | 2706-90-3 | 0.31 | 1.0 | 5.0 |
| ***PFHxA*** | 307-24-4 | 0.19 | 0.5 | 5.0 |
| ***PFHpA*** | 375-85-9 | 0.16 | 0.5 | 5.0 |
| ***PFOA*** | 335-67-1 | 0.18 | 0.5 | 5.0 |
| ***PFNA*** | 375-95-1 | 0.26 | 1.0 | 5.0 |
| ***PFDA*** | 335-76-2 | 0.16 | 0.5 | 5.0 |
| ***PFUnA*** | 2058-94-8 | 0.29 | 1.0 | 5.0 |
| ***PFDoA*** | 307-55-1 | 0.18 | 0.5 | 5.0 |
| ***PFTrDA*** | 72629-94-8 | 0.15 | 0.5 | 5.0 |
| ***PFTeDA*** | 376-06-7 | 0.25 | 1.0 | 5.0 |
| ***NMeFOSAA*** | 2355-31-9 | 0.56 | 2.0 | 5.0 |
| ***NEtFOSAA*** | 2991-50-6 | 0.49 | 1.0 | 5.0 |
| PFOSA | 754-91-6 | TBD | TBD | TBD |
| ***PFBS*** | 375-73-5 | 0.13 | 0.5 | 5.0 |
| PFPeS | BDO-2114 | 0.67 | 2.5 | 5.0 |
| ***PFHxS*** | 355-46-4 | 0.11 | 0.4 | 5.0 |
| ***PFHpS*** | 375-99-6 | 0.20 | 0.5 | 5.0 |
| ***PFOS*** | 1763-23-1 | 0.19 | 0.5 | 5.0 |
| PFNS | 98789-57-2 | 0.46 | 1.0 | 5.0 |
| ***PFDS*** | 2806-15-7 | 0.17 | 0.5 | 5.0 |
| ***4:2FTS*** | BDO-2205 | 0.14 | 0.5 | 5.0 |
| ***6:2FTS*** | 27619-97-2 | 1.36 | 2.5 | 5.0 |
| ***8:2FTS*** | 39108-34-4 | 0.22 | 0.5 | 5.0 |

***Analytes on NELAP and ELAP QSM 5.1 Scope of accreditation***



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ID 596 04/18

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

EPA 537 MOD DoD QSM 5.1 compliant with Table B-15 requirements

| 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 |
| PFTrDA | 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 |
| 13C4-PFBA | BDO-2105 | SIS[1] | 217.0 / 172.0 | NA |
| 13C5-PFPeA | BDO-2216 | SIS[1] | 268.0 / 223.0 | NA |
| 13C5-PFHxA | BDO-2217 | SIS[1] | 318.0 / 273.0 | NA |

| Analyte | CAS No. | Type | Primary Transition | Secondary Transition |
|---|---|---|---|---|
| 13C4-PFHpA | BDO-2218 | SIS[1] | 367.0 / 322.0 | NA |
| 13C8-PFOA | BDO-2219 | SIS[1] | 421.0 / 376.0 | NA |
| 13C9-PFNA | BDO-2221 | SIS[1] | 472.0 / 427.0 | NA |
| 13C6-PFDA | BDO-2222 | SIS[1] | 519.0 / 474.0 | NA |
| 13C7-PFUnA | BDO-2223 | SIS[1] | 570.0 / 525.0 | NA |
| 13C2-PFDoA | BDO-2112 | SIS[1] | 615.0 / 570.0 | NA |
| 13C2-PFTeDA | BDO-2224 | SIS[1] | 715.0 / 670.0 | NA |
| d3-MeFOSAA | BDO-1838 | SIS[1] | 573.0 / 419.0 | NA |
| d5-EtFOSAA | BDO-1839 | SIS[1] | 589.0 / 419.0 | NA |
| 13C8-FOSA | BDO-2225 | SIS[1] | 506.0 / 78.0 | NA |
| 13C3-PFBS | BDO-2226 | SIS[1] | 302.0 / 99.0 | NA |
| 13C3-PFHxS | BDO-2227 | SIS[1] | 402.0 / 99.0 | NA |
| 13C8-PFOS | BDO-2228 | SIS[1] | 507.0 / 99.0 | NA |
| 13C2-4:2FTS | BDO-2229 | SIS[1] | 329.0 / 81.0 | NA |
| 13C2-6:2FTS | BDO-2230 | SIS[1] | 429.0 / 81.0 | NA |
| 13C2-8:2FTS | BDO-2220 | SIS[1] | 529.0 / 81.0 | NA |
| 13C3-PFBA | BDO-2231 | IS[2] | 216.0 / 172.0 | NA |
| 13C2-PFOA | BDO-2107 | IS[2] | 415.0 / 370.0 | NA |
| 13C2-PFDA | BDO-2110 | IS[2] | 515.0 / 470.0 | NA |
| 13C4-PFOS | BDO-2121 | IS[2] | 503.0 / 99.0 | NA |

[1] – extracted internal standard (surrogate)
[2] – injection internal standard

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Non-Potable Water Calibration to Sample Equivalents

| ICAL (ng/L) | PIV (mL) | DF[1] | Sample Size (L) | Sample Equivalent (ng/L)[2] |
|---|---|---|---|---|
| 25 | 1 | 1 | 0.250 | 0.1 |
| 50 | 1 | 1 | 0.250 | 0.2 |
| 100 | 1 | 1 | 0.250 | 0.4 |
| 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 |
| 20,000 | 1 | 1 | 0.250 | 80.0 |

[1] - base level dilution as part of the extraction procedure

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

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# QTRAP 5500

**LC/MS/MS Detector System**

Appendix ZEFPM003-2L

# QTRAP 5500
# Preventive Maintenance Checklist

| | |
|---|---|
| **Preventive Maintenance Date:** | 12-June-2018 |

| | |
|---|---|
| **Request ID:** | 9749 |
| **Company Name:** | Battelle Memorial Institute |
| **Instrument ID:** | X60666 |
| **Instrument Model:** | QTRAP 5500 |
| **Instrument Serial Number:** | AU23051004 |

☑ **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:** Suspected issue with pulse gas manifold. TRAP testing in POSITIVE mode couldn't be finished because of pulse gas issue. The same issue will be taken care in separate service call.

**Performed By:** Kaustubh Dhayagude **Date:** 12-June-2018

**Approved By** :_____ **Date:** _____

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# QTRAP 5500

**LC/MS/MS Detector System**

Appendix ZEFPM003-2L

## PRE PM PPG PERFORMANCE EVALUATION:

☑ Consult Customer concerning the unit overall performance.
☑ Check Logbook for Services recently performed.
☑ Check Vacuum Pressure:

| CAD Settings | Vacuum Reading ( x $10^{-5}$ Torr) | Acceptance Criteria |
|---|---|---|
| ☑ CAD 0 | 0.6 | 0.4 to 1.1 x$10^{-5}$ Torr |
| ☑ CAD Low | 1.3 | Read Only |
| ☑ CAD Medium | 2.7 | Read Only |
| ☑ CAD High | 3.7 | Read Only |
| ☑ CAD 12 | 3.7 | 2.4 to 4.5 x$10^{-5}$ Torr |

☑ Check for Front end contamination symptoms. Run Q1 POS PPG using PPG 2e-7for 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-7for 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

**Pre PM PPG Test:** Perform each of the following tests. Optimize ion source position only. The specifications listed for these Pre PM tests are guidelines only, not required to be met.

☑ Perform Q1 POS using POS PPG 2e-7M. Scan Rate 10 Da/s. Record 10 mca.

| Mass | Q1 Intensity | | Q1 Width Value | Width Specs |
|---|---|---|---|---|
| | Value | Spec | | |
| Q1 175.133 | 4.01 e6 | Read Only | 0.6998 | Read Only |
| Q1 500.380 | 2.81 e7 | Read Only | 0.7038 | Read Only |
| Q1 906.673 | 4.21 e7 | Read Only | 0.7071 | Read Only |

☑ Perform Q3 POS using POS PPG 2e-7M. Scan Rate 10 Da/s. Record 10 mca.

| Mass | Q3 Intensity | | Q3 Width Value | Width Specs |
|---|---|---|---|---|
| | Value | Spec | | |
| Q3 175.133 | 5.45 e6 | Read Only | 0.6873 | Read Only |
| Q3 500.380 | 2.69 e7 | Read Only | 0.7591 | Read Only |
| Q3 906.673 | 4.50 e7 | Read Only | 0.7843 | Read Only |

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# QTRAP 5500

**LC/MS/MS Detector System**

Appendix ZEFPM003-2L

☐ Perform MSMS POS in Product Ion scan with 609.3 parent and record daughter 195.1 using Reserpine 0.167 pmol/ul at the scan rate of 10 Da/s for 10 MCA. Calculate transmission efficiency comparing Q1POS 609 intensity. Transmission Efficiency: :__28.87%__ (Read Only)

| Mass | MSMS Intensity | | MSMS Width Value | Width Specs |
|---|---|---|---|---|
| | Value | Spec | | |
| Q1 609.3 | 4.26 e7 | Read Only | 0.7011 | Read Only |
| MS/MS 195.1 | 1.23 e7 | Read Only | 0.7069 | Read Only |

☑ Perform Q1 NEG using NEG PPG 3e-5M. Scan Rate 10 Da/s. Record 10 mca.

| Mass | Q1 Intensity | | Q1 Width Value | Width Specs |
|---|---|---|---|---|
| | Value | Spec | | |
| Q1 933.636 | 1.42 e7 | Read Only | 0.7686 | Read Only |

☑ Perform Q3 NEG using NEG PPG 3e-5M. Scan Rate 10 Da/s. Record 10 mca.

| Mass | Q3 Intensity | | Q3 Width Value | Width Specs |
|---|---|---|---|---|
| | Value | Spec | | |
| Q3 933.636 | 2.24 e7 | Read Only | 0.7243 | Read Only |

☑ Perform Product Ion scan using NEG PPG 3e-5M. Record10mca.

| Mass | Scan Rate | MCA | MSMS Intensity | | MSMS Width Value | Width Specs |
|---|---|---|---|---|---|---|
| | | | Value | Spec | | |
| MSMS 45 | 10 | 10 | 3.31 e6 | Read Only | 0.6746 | Read Only |

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# QTRAP 5500

**LC/MS/MS Detector System**

Appendix ZEFPM003-2L

## PREVENTIVE MAINTENANCE CHECKLIST:

☑ Check Cooling Fans for Turbo Pumps while MS is ON.
☑ Check QJet and QPS tuning voltage for reference.
☐ Record AC input Voltage while MS is OFF: _____(200-240VAC).
If Out-of-Range, notify customer.

☑ Clean Interface
- ☑ Curtain Plate
- ☑ Orifice Plate
- ☑ QJet
- ☑ Q0 Rods.

☑ Replace Roughing Pump Oil.
☑ Inspect Oil Exhaust Filter, if Applicable. ☐ N/A
☑ Clean and inspect built-in divert valve if used. ☐ N/A
☑ Check Multiplier Voltage, optimize if necessary.
☑ Replace four Air Filters at the bottom of the mass spectrometer.

☑Pump down overnight if possible. ☐ N/A

☑Perform Maintenance on Turbo V source.

☑Replace Electrode, if necessary. ☐ N/A
☑Check Turbo heaters resistances.
☑Check if Temperature is reached at 500C with TIS Probe installed.
☐Check if Temperature is reached at 500C with APCI Probe installed. ☑ N/A

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# QTRAP 5500

**LC/MS/MS Detector System**

Appendix ZEFPM003-2L

## POST PM PPG PERFORMANCE TESTS:

☑ Set-up Sample for Infusion.
☑ Check spray and adjust sprayer's position of the TIS source.
☑ Check Vacuum Pressure:

| CAD Settings | Vacuum Reading ( x $10^{-5}$ Torr) | Acceptance Criteria |
|---|---|---|
| ☑ CAD 0 | 0.7 | 0.4 to 1.1 x$10^{-5}$ Torr |
| ☑ CAD Low | 1.3 | Read Only |
| ☑ CAD Medium | 2.7 | Read Only |
| ☑ CAD High | 3.7 | Read Only |
| ☑ CAD 12 | 3.7 | 2.4 to 4.5 x$10^{-5}$ Torr |

☑ Perform Q1 POS using POS PPG 2e-7M. Mass calibrate to less than 0.1 amu.

| Mass | Q1 Intensity | | Q1 Width | Width Specs |
|---|---|---|---|---|
| | Value | Spec | Value | |
| Scan Rate 10 Da/s Record 10 mca | | | | |
| Q1 175.133 | 5.04 e6 | ≥1.2$^{e}$6 | 0.6737 | 0.6 to 0.8 |
| Q1 500.380 | 1.60 e7 | ≥9.0$^{e}$6 | 0.6961 | 0.6 to 0.8 |
| Q1 906.673 | 2.84 e7 | ≥1.4$^{e}$7 | 0.7179 | 0.6 to 0.8 |
| Scan Rate 1000 Da/s Record 50 mca | | | | |
| Q1 906.673 | 1.33 e8 | ≥6.8$^{e}$7 | 0.7465 | 0.6 to 0.8 |

☑ Perform Q3 POS using POS PPG 2e-7M. Mass calibrate to less than 0.1 amu.

| Mass | Q3 Intensity | | Q3 Width | Width Specs |
|---|---|---|---|---|
| | Value | Spec | Value | |
| Scan Rate 10 Da/s Record 10 mca | | | | |
| Q3 175.133 | 5.02 e6 | ≥1.2$^{e}$6 | 0.6719 | 0.6 to 0.8 |
| Q3 500.380 | 1.72 e7 | ≥9.0$^{e}$6 | 0.7443 | 0.6 to 0.8 |
| Q3 906.673 | 3.00 e7 | ≥1.4$^{e}$7 | 0.7504 | 0.6 to 0.8 |
| Scan Rate 1000 Da/s Record 50 mca | | | | |
| Q3 906.673 | 1.46 e8 | ≥6.8$^{e}$7 | 0.7202 | 0.6 to 0.8 |

☑ Perform "Product of 609.3" POS and record product ion 195.1 using Reserpine 0.167pmol/uL. Record 10 mca. Calculate Transmission efficiency comparing Q1POS 609 intensity.
Transmission Efficiency: 21.10% (≥ 10.0%)

| Mass | MSMS Intensity | | Width | Width Specs |
|---|---|---|---|---|
| | Value | Spec | Value | |
| Q1 609.3 | 5.78 e7 | N/A | 0.6888 | Read Only |
| MS/MS 195.1 | 1.22 e7 | N/A | 0.7003 | Read Only |

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# QTRAP 5500

**LC/MS/MS Detector System**

Appendix ZEFPM003-2L

☑ Perform Q1 NEG using NEG PPG 3e-5M. Mass calibrate to less than 0.1 amu.

| Mass | Scan Rate | Mca | Q1 Intensity | | Q1 Width Value | Width Specs |
|---|---|---|---|---|---|---|
| | | | Value | Spec | | |
| Q1 933.636 | 10 | 10 | 1.35 e7 | ≥1.0^e7 | 0.7486 | 0.6 to 0.8 |
| Q1 933.636 | 1000 | 50 | 7.52 e7 | ≥4.0^e7 | 0.7206 | 0.6 to 0.8 |

☑ Perform Q3 NEG using NEG PPG 3e-5M. Mass calibrate to less than 0.1 amu.

| Mass | Scan Rate | Mca | Q3 Intensity | | Q3 Width Value | Width Specs |
|---|---|---|---|---|---|---|
| | | | Value | Spec | | |
| Q3 933.636 | 10 | 10 | 2.15 e7 | ≥8.0^e6 | 0.7492 | 0.6 to 0.8 |
| Q3 933.636 | 1000 | 50 | 8.33 e7 | ≥4.0^e7 | 0.7299 | 0.6 to 0.8 |

☑ Perform Product Ion scan using NEG PPG 3e-5M.

| Mass | Scan Rate | Mca | MSMS Intensity | | MSMS Width Value | Width Specs |
|---|---|---|---|---|---|---|
| | | | Value | Spec | | |
| MSMS 45 | 10 | 10 | 3.33 e6 | Read Only | 0.6387 | Read Only |

☑ Perform ER POS 118.087 and 922.01 using ESI Tuning Mix 1:100 in ES Tuning Dilution Solvent. Apply suggested Scan Rate and Record number of MCA. Mass calibrate to less than 0.1 amu.

| Mass | Fill Time (ms) | ER Intensity | | ER Width Value | Width Specs |
|---|---|---|---|---|---|
| | | Value | Spec | | |
| ScanRate : 1000 Da/s ; 50 Mca | | | | | |
| ER 118.087 | 0.05 | 8.54 e6 | ≥7.2 ^e6 | 0.1473 | <0.35 |
| ER 922.010 | 0.05 | 4.96 e7 | ≥2.8 ^e6 | 0.2434 | <0.35 |
| ScanRate : 10000 Da/s ; 50 Mca | | | | | |
| ER 118.087 | 0.05 | | ≥2.4 ^e7 | | <0.65 |
| ER 922.010 | 0.05 | | ≥6.8 ^e7 | | <0.65 |

☑ Perform ER NEG 431.982 and 601.978 using ESI Tuning Mix 1:100 in ES Tuning Dilution Solvent. Apply suggested Scan Rate and Record number of MCA. Mass calibrate to less than 0.1 amu.

| Mass | Fill Time (ms) | ER Intensity | | ER Width Value | Width Specs |
|---|---|---|---|---|---|
| | | Value | Spec | | |
| ScanRate : 1000 Da/s ; 50 Mca | | | | | |
| ER 431.982 | 0.05 | 1.81 e8 | ≥4.4 ^e7 | 0.1862 | <0.35 |
| ER 601.978 | 0.05 | 1.70 e8 | ≥5.6 ^e7 | 0.1809 | <0.35 |
| ScanRate : 10000 Da/s ; 50 Mca | | | | | |
| ER 431.982 | 0.05 | 5.72 e8 | ≥1.2 ^e8 | 0.5102 | <0.65 |
| ER 601.978 | 0.05 | 4.52 e8 | ≥1.6 ^e8 | 0.6187 | <0.65 |

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# QTRAP 5500

**LC/MS/MS Detector System**

Appendix ZEFPM003-2L

☑ Perform EPI POS 397.2 using Reserpine 0.167pmol/uL. Record 20 mca.

| Mass | Scan Rate (Da/s) | Q0 Trapping OFF | | Q0 Trapping ON | |
|---|---|---|---|---|---|
| | | Intensity | Spec | Intensity | Spec |
| EPI 397.2 | 10000 | > 3.0 e6 | ≥2.0 e6 | > 7.0 e6 | ≥6.4 e6 |

☑ Perform MS3 POS full scan Fragmentation ON & OFF using Reserpine 0.167pmol/uL. Record 20 mca.

| Mass | Scan Rate (Da/s) | Fragamentation OFF | | Fragmentation ON | |
|---|---|---|---|---|---|
| | | Intensity | Spec | Intensity | Spec |
| MS3 397.2 | 1000 | Yes | Contains only 397.2 | N/A | N/A |
| ☐ 236 OR ☑ 365 | 1000 | Yes | Fragment Intensity | > 2.0 e6 | ≥1.6x $10^{e}6$ |

## REVIEW:

☑ Attach all spectrums printouts to this procedure.
☑ If any parameter setting access modes were changed during the PM, ensure 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
☑ Update Service Work Order status
☑ Fill and replace PM Label.

**END OF PREVENTIVE MAINTENANCE CHECKLIST**

## Document history:

06 OCT 2016: Appendix ZEFPM003-2L: Removed requirements to fit Manufacturer's testing criteria.

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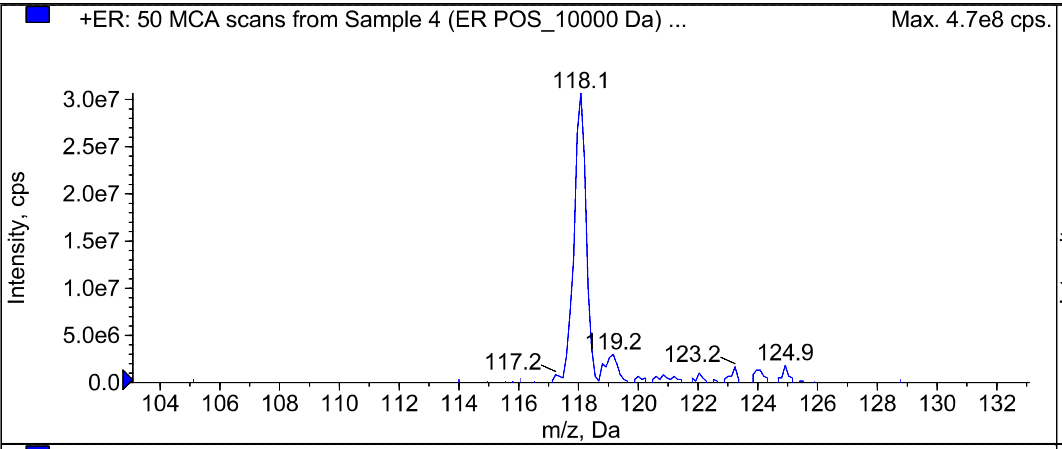


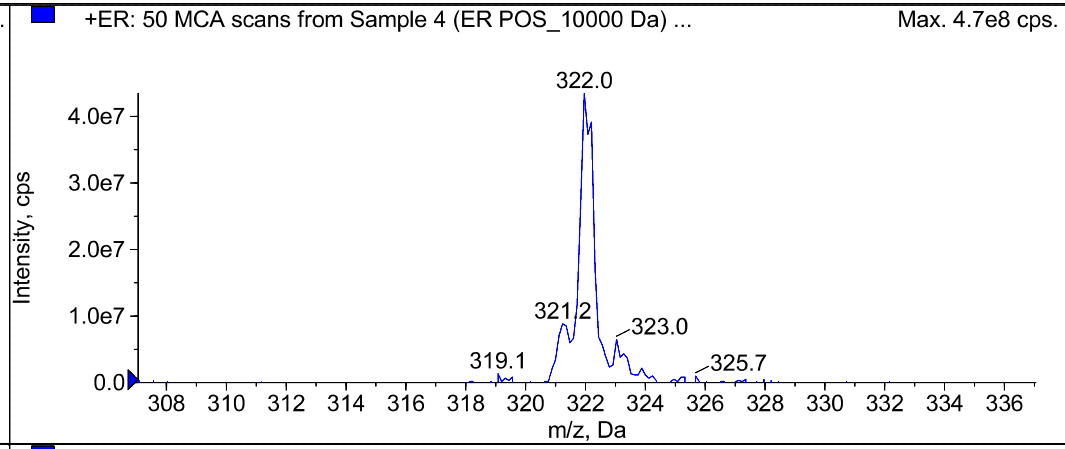


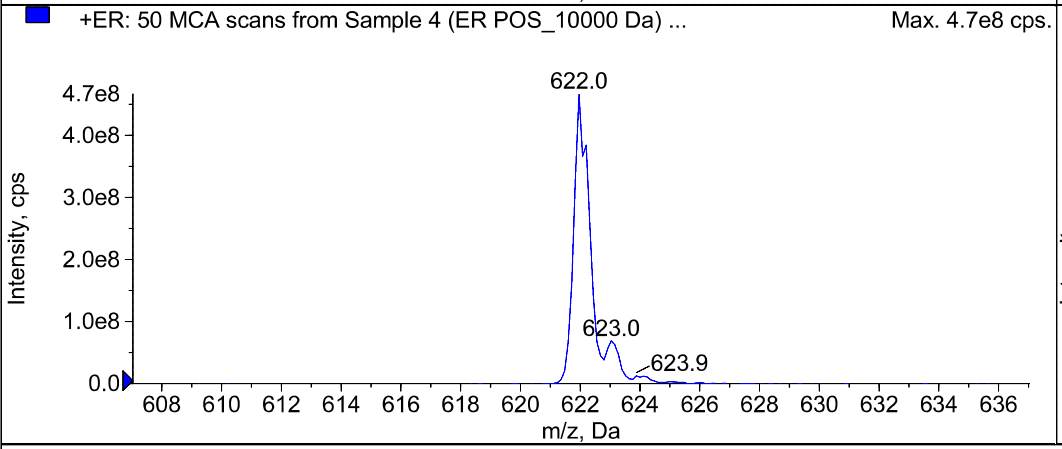


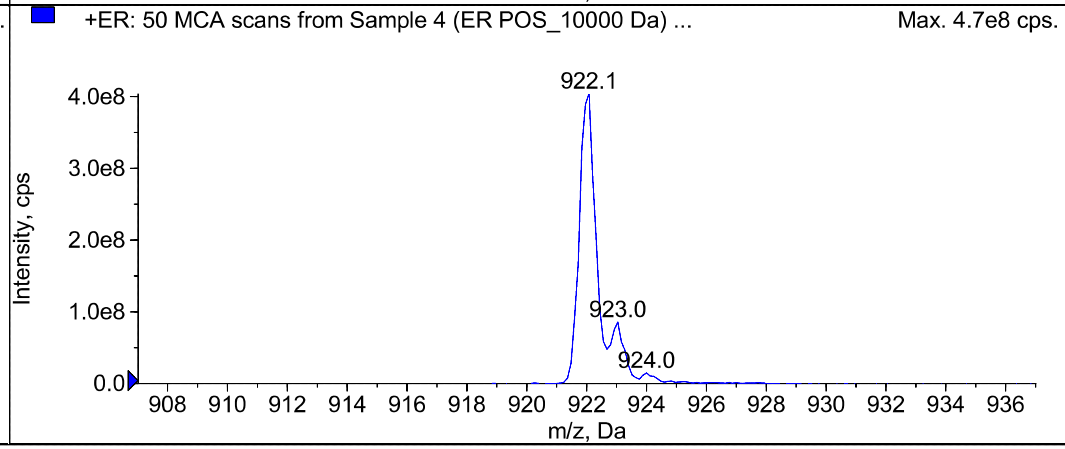


Peak List for " +ER: 50 MCA scans from Sample 4 (ER POS_10000 Da) of TRAP ER with NEW Pulse Manifold.wiff (Turbo Spray)"

| | Target Mass (Da) | Found At (Da) | Intensity (cps) | Width (Da) | Mass Shift (Da) |
|---|---|---|---|---|---|
| 1 | 118.0870 | 118.0702 | 3.0667e7 | 0.4146 | 0.0168 |
| 2 | 322.0490 | 322.0509 | 4.3500e7 | 0.4945 | -1.9159e-3 |
| 3 | 622.0290 | 622.0370 | 4.6717e8 | 0.5757 | -8.0044e-3 |
| 4 | 922.0100 | 922.0101 | 4.0400e8 | 0.5732 | -1.4148e-4 |

| Battelle Standard ID | Description | Intermediate Solutions | Battelle Reagent ID (purchased solutions) |
|---|---|---|---|
| JZ88 | PFAS - DoD Second Source LCS/MS Solution | - | 170724-01 |
| KB33 | PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS) | JY27 | 180726-05 |
| KB72 | PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS) | KB71 | 180726-05 |
| KB34 | PFAS - DoD Internal Standard Spiking Solution | JY25 | 180726-04 |
| KC03 | PFAS - DoD Internal Standard Spiking Solution | JY25 | 180726-04 |
| KB73 | PFAS - DoD Calibration L1 | KB71 | 180726-05 |
| KB73 | PFAS - DoD Calibration L1 | JY23 | 180705-02 |
| KB73 | PFAS - DoD Calibration L1 | JY25 | 180726-04 |
| KB74 | PFAS - DoD Calibration L2 | JY25 | 180726-04 |
| KB74 | PFAS - DoD Calibration L2 | JY23 | 180705-02 |
| KB74 | PFAS - DoD Calibration L2 | KB71 | 180726-05 |
| KB75 | PFAS - DoD Calibration L3 | KB70 | 180705-02 |
| KB75 | PFAS - DoD Calibration L3 | KB71 | 180726-05 |
| KB75 | PFAS - DoD Calibration L3 | JY25 | 180726-04 |
| KB76 | PFAS - DoD Calibration L4 | JY25 | 180726-04 |
| KB76 | PFAS - DoD Calibration L4 | KB71 | 180726-05 |
| KB76 | PFAS - DoD Calibration L4 | KB70 | 180705-02 |
| KB77 | PFAS - DoD Calibration L5 | KB70 | 180705-02 |
| KB77 | PFAS - DoD Calibration L5 | KB71 | 180726-05 |
| KB77 | PFAS - DoD Calibration L5 | JY25 | 180726-04 |
| KB78 | PFAS - DoD Calibraiton L6 | JY25 | 180726-04 |
| KB78 | PFAS - DoD Calibraiton L6 | KB71 | 180726-05 |
| KB78 | PFAS - DoD Calibraiton L6 | KB70 | 180705-02 |
| KB79 | PFAS - DoD Calibration L7 | KB70 | 180705-02 |
| KB79 | PFAS - DoD Calibration L7 | KB71 | 180726-05 |
| KB79 | PFAS - DoD Calibration L7 | JY25 | 180726-04 |
| KB80 | PFAS - DoD Instrument Blank | JY25 | 180726-04 |
| KB80 | PFAS - DoD Instrument Blank | KB71 | 180726-05 |
| KB81 | PFAS - DoD ICC | KB82 | 170724-01 |
| KB81 | PFAS - DoD ICC | KB71 | 180726-05 |
| KB81 | PFAS - DoD ICC | JY25 | 180726-04 |
| KB89 | PFAS Branched Solution (~5,000 ng/L) | JX28 | 180618-02 |
| KB89 | PFAS Branched Solution (~5,000 ng/L) | JX28 | 180618-03 |
| KB89 | PFAS Branched Solution (~5,000 ng/L) | JX28 | 180618-04 |
| KB89 | PFAS Branched Solution (~5,000 ng/L) | JX28 | 180618-06 |
| KB89 | PFAS Branched Solution (~5,000 ng/L) | JX28 | 180618-07 |

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It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** JX28

**Description:** PFAS Branched Standard Stock

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 180618-02 | Branched NEtFOSAA Standard (50 µg/mL) | Neat | ~50.000000 | 01/17/23 | --- | --- | 100 uL | 1 | 10 | ~0.5000 |
| 180618-03 | Branched NMeFOSAA Standard (50 µg/mL) | Neat | ~50.000000 | 01/17/23 | --- | --- | 100 uL | 1 | 10 | ~0.5000 |
| 180618-04 | PFOA - Technical Mix | Neat | ~50.000000 | 02/16/22 | --- | --- | 100 uL | 1 | 10 | ~0.5000 |
| 180618-06 | Branched PFHxS Standard (50 µg/mL) | Neat | ~50.000000 | 01/04/22 | --- | --- | 100 uL | 1 | 10 | ~0.5000 |
| 180618-07 | Branched PFOS Standard (50 µg/mL) | Neat | ~50.000000 | 01/12/22 | --- | --- | 100 uL | 1 | 10 | ~0.5000 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 6/18/2018 **Expiration Date:** 6/18/2019

**Solution Volume** 25 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Balance ID:** _____

**Comment:**

| Solvent: | Lot: |
|---|---|
| Methanol (HPLC) | 179315 |

**Approved By:** Thorn, Jonathan **Date:** 7/3/2018 8:10:00 AM

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# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** JX28

**Description:** PFAS Branched Standard Stock

**Stock Id:** 180618-02

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| N-ethylperfluoro-octanesulfonamidoacetic acid | 100 | 50.00 | 1 | 100.000 | 1 | 10 | 0.50000 |

**Stock Id:** 180618-03

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 100 | 50.00 | 1 | 100.000 | 1 | 10 | 0.50000 |

**Stock Id:** 180618-04

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| Perfluoro-n-octanoic Acid | 100 | 50.00 | 1 | 100.000 | 1 | 10 | 0.50000 |

**Stock Id:** 180618-06

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| Perfluoro-1-hexanesulfonate | 100 | 50.00 | 1 | 100.000 | 1 | 10 | 0.50000 |

**Stock Id:** 180618-07

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| Perfluoro-1-octanesulfonate | 100 | 50.00 | 1 | 100.000 | 1 | 10 | 0.50000 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| N-ethylperfluoro-octanesulfonamidoacetic acid | .50000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .50000 |
| Perfluoro-1-hexanesulfonate | .50000 |
| Perfluoro-1-octanesulfonate | .50000 |
| Perfluoro-n-octanoic Acid | .50000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 180618-02 | Pipette | I0793912B |
| 180618-03 | Pipette | I0793912B |
| 180618-04 | Pipette | I0793912B |
| 180618-06 | Pipette | I0793912B |
| 180618-07 | Pipette | I0793912B |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 6/18/2018 **Expiration Date:** 6/18/2019

**Solution Volume** 25 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:**

**Approved By:** Thorn, Jonathan **Date:** 7/3/2018 8:10:00 AM

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It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** JY23

**Description:** PFAS - DoD Low ICAL Stock

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 180705-02 | PFOA - DOD | Neat | ~1.000000 | 06/19/23 | --- | --- | 500 uL | 1 | 100 | ~0.0050 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 7/16/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 4 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Balance ID:**

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Thorn, Jonathan **Date:** 8/29/2018 10:10:00 AM

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It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** JY23

**Description:** PFAS - DoD Low ICAL Stock

**Stock Id:** 180705-02

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| (Na) Perfluoro-1-decanesulfonate | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| (NA) Perfluoro-1-heptanesulfonate | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| (Na) Perfluoro-1-nonanesulfonate | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-1-butanesulfonate | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| Perfluoro-1-hexanesulfonate | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| Perfluoro-1-octanesulfonamide | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-1-octanesulfonate | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-butanoic Acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-decanoic Acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-dodecanoic acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-heptanoic Acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-hexanoic acid | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| Perfluoro-n-octanoic Acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluorononanoic Acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-pentanoic acid | 500 | 1.01 | 1 | 100.000 | 1 | 100 | 0.00505 |
| Perfluoro-n-tetradecanoic acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-tridecanoic acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Perfluoro-n-undecanoic acid | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |
| Sodium perfluoro-1-pentanesulfonate | 500 | 1.00 | 1 | 100.000 | 1 | 100 | 0.00500 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .00505 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .00505 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .00500 |
| (Na) Perfluoro-1-decanesulfonate | .00505 |
| (NA) Perfluoro-1-heptanesulfonate | .00500 |
| (Na) Perfluoro-1-nonanesulfonate | .00505 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00500 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00500 |
| Perfluoro-1-butanesulfonate | .00505 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 7/16/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 4 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Thorn, Jonathan **Date:** 8/29/2018 10:10:00 AM

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It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** JY23

**Description:** PFAS - DoD Low ICAL Stock

| | |
|---|---|
| Perfluoro-1-hexanesulfonate | .00505 |
| Perfluoro-1-octanesulfonamide | .00500 |
| Perfluoro-1-octanesulfonate | .00500 |
| Perfluoro-n-butanoic Acid | .00500 |
| Perfluoro-n-decanoic Acid | .00500 |
| Perfluoro-n-dodecanoic acid | .00500 |
| Perfluoro-n-heptanoic Acid | .00500 |
| Perfluoro-n-hexanoic acid | .00505 |
| Perfluoro-n-octanoic Acid | .00500 |
| Perfluorononanoic Acid | .00500 |
| Perfluoro-n-pentanoic acid | .00505 |
| Perfluoro-n-tetradecanoic acid | .00500 |
| Perfluoro-n-tridecanoic acid | .00500 |
| Perfluoro-n-undecanoic acid | .00500 |
| Sodium perfluoro-1-pentanesulfonate | .00500 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 180705-02 | Pipette | B820865811 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 7/16/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 4 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Thorn, Jonathan **Date:** 8/29/2018 10:10:00 AM

BATTELLE

It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** JY25

**Description:** PFAS - DoD Internal Standard Stock Solution

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 180726-04 | Mass-labelled PFAS injection standards | Neat | ~2.000000 | 05/02/22 | --- | --- | 625 uL | 1 | 25 | ~0.0500 |

| | | | |
|---|---|---|---|
| **Solution Prepared By:** Schultz, Stephanie | **Date Prepared:** 7/16/2018 | **Expiration Date:** | 7/16/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:**

**Comment:** 96/4 Methanol/Milli-q water ( RP-180803-1)

**Approved By:** Thorn, Jonathan **Date:** 8/29/2018 10:09:00 AM

BATTELLE

It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** JY25

**Description:** PFAS - DoD Internal Standard Stock Solution

**Stock Id:** 180726-04

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 625 | 2.00 | 1 | 100.000 | 1 | 25 | 0.05000 |
| 13C2-PFOA | 625 | 2.00 | 1 | 100.000 | 1 | 25 | 0.05000 |
| 13C3-PFBA | 625 | 2.00 | 1 | 100.000 | 1 | 25 | 0.05000 |
| 13C4-PFOS | 625 | 1.91 | 1 | 100.000 | 1 | 25 | 0.04785 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-PFDA | .05000 |
| 13C2-PFOA | .05000 |
| 13C3-PFBA | .05000 |
| 13C4-PFOS | .04785 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 180726-04 | Pipette | B820865811 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 7/16/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water ( RP-180803-1)

**Approved By:** Thorn, Jonathan **Date:** 8/29/2018 10:09:00 AM

BATTELLE

It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** JY27

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

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 180726-05 | Mass-labelled PFAS Extraction Standard Solution | Neat | ~1.000000 | 02/07/23 | --- | --- | 1000 uL | 1 | 20 | ~0.0500 |

| | | | |
|---|---|---|---|
| **Solution Prepared By:** Schultz, Stephanie | **Date Prepared:** 7/16/2018 | **Expiration Date:** | 7/16/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 96/4 Methanol/Milli-q water (RP-180803-1)

**Approved By:** Schumitz, Denise **Date:** 8/8/2018 9:17:00 AM

BATTELLE

It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** JY27

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

**Stock Id:** 180726-05

| 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 | 0.94 | 1 | 100.000 | 1 | 20 | 0.04675 |
| 13C2-6:2FTS | 1000 | 0.95 | 1 | 100.000 | 1 | 20 | 0.04745 |
| 13C2-8:2FTS | 1000 | 0.96 | 1 | 100.000 | 1 | 20 | 0.04790 |
| 13C2-PFDoA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C2-PFTeDA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C3-PFBS | 1000 | 0.93 | 1 | 100.000 | 1 | 20 | 0.04645 |
| 13C3-PFHxS | 1000 | 0.95 | 1 | 100.000 | 1 | 20 | 0.04730 |
| 13C4-PFBA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C4-PFHpA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C5-PFHxA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C5-PFPeA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C6-PFDA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C7-PFUnA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C8-FOSA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C8-PFOA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C8-PFOS | 1000 | 0.96 | 1 | 100.000 | 1 | 20 | 0.04785 |
| 13C9-PFNA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| d3-MeFOSAA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| d5-EtFOSAA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-4:2FTS | .04675 |
| 13C2-6:2FTS | .04745 |
| 13C2-8:2FTS | .04790 |
| 13C2-PFDoA | .05000 |
| 13C2-PFTeDA | .05000 |
| 13C3-PFBS | .04645 |
| 13C3-PFHxS | .04730 |
| 13C4-PFBA | .05000 |
| 13C4-PFHpA | .05000 |
| 13C5-PFHxA | .05000 |
| 13C5-PFPeA | .05000 |
| 13C6-PFDA | .05000 |
| 13C7-PFUnA | .05000 |
| 13C8-FOSA | .05000 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 7/16/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water (RP-180803-1)

**Approved By:** Schumitz, Denise **Date:** 8/8/2018 9:17:00 AM

BATTELLE

It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** JY27

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

| | |
|---|---|
| 13C8-PFOA | .05000 |
| 13C8-PFOS | .04785 |
| 13C9-PFNA | .05000 |
| d3-MeFOSAA | .05000 |
| d5-EtFOSAA | .05000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 180726-05 | Pipette | B820865811 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 7/16/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water (RP-180803-1)

**Approved By:** Schumitz, Denise **Date:** 8/8/2018 9:17:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **JZ88**

**Description:** PFAS - DoD Second Source LCS/MS Solution

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 170724-01 | PFOA- 2nd Source | Neat | ~1.000000 | 03/22/22 | --- | --- | 1000 uL | 1 | 20 | ~0.0500 |

| | | | |
|---|---|---|---|
| **Solution Prepared By:** Schultz, Stephanie | **Date Prepared:** 8/20/2018 | **Expiration Date:** | 8/20/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:**

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 8/21/2018 7:17:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** JZ88

**Description:** PFAS - DoD Second Source LCS/MS Solution

**Stock Id:** 170724-01

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) Perfluoro-1-decanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| (NA) Perfluoro-1-heptanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) Perfluoro-1-nonanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-1-butanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-1-hexanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-1-octanesulfonamide | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-1-octanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-butanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-decanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-dodecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-heptanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-hexanoic acid | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-n-octanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluorononanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-pentanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-tetradecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-tridecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-undecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Sodium perfluoro-1-pentanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .05050 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .05000 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .05000 |
| (Na) Perfluoro-1-decanesulfonate | .05050 |
| (NA) Perfluoro-1-heptanesulfonate | .05000 |
| (Na) Perfluoro-1-nonanesulfonate | .05050 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .05000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .05000 |
| Perfluoro-1-butanesulfonate | .05050 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 8/20/2018 **Expiration Date:** 8/20/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 8/21/2018 7:17:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number: JZ88**

**Description:** PFAS - DoD Second Source LCS/MS Solution

| | |
|---|---|
| Perfluoro-1-hexanesulfonate | .05050 |
| Perfluoro-1-octanesulfonamide | .05000 |
| Perfluoro-1-octanesulfonate | .05000 |
| Perfluoro-n-butanoic Acid | .05000 |
| Perfluoro-n-decanoic Acid | .05000 |
| Perfluoro-n-dodecanoic acid | .05000 |
| Perfluoro-n-heptanoic Acid | .05000 |
| Perfluoro-n-hexanoic acid | .05050 |
| Perfluoro-n-octanoic Acid | .05000 |
| Perfluorononanoic Acid | .05000 |
| Perfluoro-n-pentanoic acid | .05000 |
| Perfluoro-n-tetradecanoic acid | .05000 |
| Perfluoro-n-tridecanoic acid | .05000 |
| Perfluoro-n-undecanoic acid | .05000 |
| Sodium perfluoro-1-pentanesulfonate | .05000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 170724-01 | Pipette | C0982448K |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 8/20/2018 **Expiration Date:** 8/20/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 8/21/2018 7:17:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number: KB33**

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

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JY27 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 07/16/19 | --- | --- | 2500 uL | 1 | 25 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 9/24/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:**

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 9/24/2018 3:46:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB33**

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

**Stock Id:** **JY27**

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00468 |
| 13C2-6:2FTS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00475 |
| 13C2-8:2FTS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00479 |
| 13C2-PFDoA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C2-PFTeDA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C3-PFBS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00465 |
| 13C3-PFHxS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00473 |
| 13C4-PFBA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C4-PFHpA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C5-PFHxA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C5-PFPeA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C6-PFDA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C7-PFUnA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C8-FOSA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C8-PFOA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C8-PFOS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00478 |
| 13C9-PFNA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| d3-MeFOSAA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| d5-EtFOSAA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-4:2FTS | .00468 |
| 13C2-6:2FTS | .00475 |
| 13C2-8:2FTS | .00479 |
| 13C2-PFDoA | .00500 |
| 13C2-PFTeDA | .00500 |
| 13C3-PFBS | .00465 |
| 13C3-PFHxS | .00473 |
| 13C4-PFBA | .00500 |
| 13C4-PFHpA | .00500 |
| 13C5-PFHxA | .00500 |
| 13C5-PFPeA | .00500 |
| 13C6-PFDA | .00500 |
| 13C7-PFUnA | .00500 |
| 13C8-FOSA | .00500 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 9/24/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 9/24/2018 3:46:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number: KB33**

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

| | |
|---|---|
| 13C8-PFOA | .00500 |
| 13C8-PFOS | .00478 |
| 13C9-PFNA | .00500 |
| d3-MeFOSAA | .00500 |
| d5-EtFOSAA | .00500 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY27 | Pipette | OU16914 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 9/24/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 9/24/2018 3:46:00 PM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB34**

**Description:** PFAS - DoD Internal Standard Spiking Solution

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 2500 uL | 1 | 25 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 9/24/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 9/24/2018 3:46:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number: KB34**

**Description:** PFAS - DoD Internal Standard Spiking Solution

**Stock Id: JY25**

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C2-PFOA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C3-PFBA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C4-PFOS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00479 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-PFDA | .00500 |
| 13C2-PFOA | .00500 |
| 13C3-PFBA | .00500 |
| 13C4-PFOS | .00479 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | OU16914 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 9/24/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 9/24/2018 3:46:00 PM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB70**

**Description:** PFAS - DoD High ICAL Stock

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 180705-02 | PFOA - ICAL Mix | Neat | ~1.000000 | 06/19/23 | --- | --- | 1000 uL | 1 | 20 | ~0.0500 |

| | | | |
|---|---|---|---|
| **Solution Prepared By:** Schultz, Stephanie | **Date Prepared:** 10/1/2018 | **Expiration Date:** | 10/1/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:**

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Thorn, Jonathan **Date:** 10/12/2018 8:03:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB70

**Description:** PFAS - DoD High ICAL Stock

**Stock Id:** 180705-02

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) Perfluoro-1-decanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| (NA) Perfluoro-1-heptanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) Perfluoro-1-nonanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-1-butanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-1-hexanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-1-octanesulfonamide | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-1-octanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-butanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-decanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-dodecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-heptanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-hexanoic acid | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-n-octanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluorononanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-pentanoic acid | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-n-tetradecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-tridecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-undecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Sodium perfluoro-1-pentanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .05050 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .05050 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .05000 |
| (Na) Perfluoro-1-decanesulfonate | .05050 |
| (NA) Perfluoro-1-heptanesulfonate | .05000 |
| (Na) Perfluoro-1-nonanesulfonate | .05050 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .05000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .05000 |
| Perfluoro-1-butanesulfonate | .05050 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 10/1/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Thorn, Jonathan **Date:** 10/12/2018 8:03:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB70**

**Description:** PFAS - DoD High ICAL Stock

| | |
|---|---|
| Perfluoro-1-hexanesulfonate | .05050 |
| Perfluoro-1-octanesulfonamide | .05000 |
| Perfluoro-1-octanesulfonate | .05000 |
| Perfluoro-n-butanoic Acid | .05000 |
| Perfluoro-n-decanoic Acid | .05000 |
| Perfluoro-n-dodecanoic acid | .05000 |
| Perfluoro-n-heptanoic Acid | .05000 |
| Perfluoro-n-hexanoic acid | .05050 |
| Perfluoro-n-octanoic Acid | .05000 |
| Perfluorononanoic Acid | .05000 |
| Perfluoro-n-pentanoic acid | .05050 |
| Perfluoro-n-tetradecanoic acid | .05000 |
| Perfluoro-n-tridecanoic acid | .05000 |
| Perfluoro-n-undecanoic acid | .05000 |
| Sodium perfluoro-1-pentanesulfonate | .05000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 180705-02 | Pipette | B820865811 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 10/1/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Thorn, Jonathan **Date:** 10/12/2018 8:03:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB71**

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

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 180726-05 | Mass-labelled PFAS Extraction Standard Solution | Neat | ~1.000000 | 02/07/23 | --- | --- | 1000 uL | 1 | 20 | ~0.0500 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date** | 10/1/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB71

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

**Stock Id:** 180726-05

| 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 | 0.94 | 1 | 100.000 | 1 | 20 | 0.04675 |
| 13C2-6:2FTS | 1000 | 0.95 | 1 | 100.000 | 1 | 20 | 0.04745 |
| 13C2-8:2FTS | 1000 | 0.96 | 1 | 100.000 | 1 | 20 | 0.04790 |
| 13C2-PFDoA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C2-PFTeDA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C3-PFBS | 1000 | 0.93 | 1 | 100.000 | 1 | 20 | 0.04645 |
| 13C3-PFHxS | 1000 | 0.95 | 1 | 100.000 | 1 | 20 | 0.04730 |
| 13C4-PFBA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C4-PFHpA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C5-PFHxA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C5-PFPeA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C6-PFDA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C7-PFUnA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C8-FOSA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C8-PFOA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| 13C8-PFOS | 1000 | 0.96 | 1 | 100.000 | 1 | 20 | 0.04785 |
| 13C9-PFNA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| d3-MeFOSAA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| d5-EtFOSAA | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-4:2FTS | .04675 |
| 13C2-6:2FTS | .04745 |
| 13C2-8:2FTS | .04790 |
| 13C2-PFDoA | .05000 |
| 13C2-PFTeDA | .05000 |
| 13C3-PFBS | .04645 |
| 13C3-PFHxS | .04730 |
| 13C4-PFBA | .05000 |
| 13C4-PFHpA | .05000 |
| 13C5-PFHxA | .05000 |
| 13C5-PFPeA | .05000 |
| 13C6-PFDA | .05000 |
| 13C7-PFUnA | .05000 |
| 13C8-FOSA | .05000 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 10/1/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number: KB71**

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

| | |
|---|---|
| 13C8-PFOA | .05000 |
| 13C8-PFOS | .04785 |
| 13C9-PFNA | .05000 |
| d3-MeFOSAA | .05000 |
| d5-EtFOSAA | .05000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 180726-05 | Pipette | B820865811 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 10/1/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB72**

**Description:** PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 2500 uL | 1 | 25 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date** | 10/1/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:**

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB72

**Description:** PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00468 |
| 13C2-6:2FTS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00475 |
| 13C2-8:2FTS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00479 |
| 13C2-PFDoA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C2-PFTeDA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C3-PFBS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00465 |
| 13C3-PFHxS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00473 |
| 13C4-PFBA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C4-PFHpA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C5-PFHxA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C5-PFPeA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C6-PFDA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C7-PFUnA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C8-FOSA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C8-PFOA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C8-PFOS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00478 |
| 13C9-PFNA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| d3-MeFOSAA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| d5-EtFOSAA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-4:2FTS | .00468 |
| 13C2-6:2FTS | .00475 |
| 13C2-8:2FTS | .00479 |
| 13C2-PFDoA | .00500 |
| 13C2-PFTeDA | .00500 |
| 13C3-PFBS | .00465 |
| 13C3-PFHxS | .00473 |
| 13C4-PFBA | .00500 |
| 13C4-PFHpA | .00500 |
| 13C5-PFHxA | .00500 |
| 13C5-PFPeA | .00500 |
| 13C6-PFDA | .00500 |
| 13C7-PFUnA | .00500 |
| 13C8-FOSA | .00500 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 10/1/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number: KB72**

**Description:** PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)

| | |
|---|---|
| 13C8-PFOA | .00500 |
| 13C8-PFOS | .00478 |
| 13C9-PFNA | .00500 |
| d3-MeFOSAA | .00500 |

**Syringes/Pipettes:**

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By:** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date:** | 10/1/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB73**

**Description:** PFAS - DoD Calibration L1

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JY23 | PFAS - DoD Low ICAL Stock | Solution | ~0 | 07/16/19 | --- | --- | 200 uL | 1 | 10 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB73

**Description:** PFAS - DoD Calibration L1

**Stock Id:** JY23

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| (Na) Perfluoro-1-decanesulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| (NA) Perfluoro-1-heptanesulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| (Na) Perfluoro-1-nonanesulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-1-butanesulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-1-hexanesulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-1-octanesulfonamide | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-1-octanesulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-butanoic Acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-decanoic Acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-dodecanoic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-heptanoic Acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-hexanoic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-octanoic Acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluorononanoic Acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-pentanoic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-tetradecanoic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-tridecanoic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Perfluoro-n-undecanoic acid | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |
| Sodium perfluoro-1-pentanesulfonate | 200 | 0.01 | --- | --- | 1 | 10 | 0.00010 |

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB73**

**Description:** PFAS - DoD Calibration L1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13C2-6:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-8:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-PFDoA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFTeDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C3-PFHxS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C4-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFHpA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFHxA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFPeA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C6-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C7-PFUnA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-FOSA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C9-PFNA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d3-MeFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d5-EtFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .00010 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .00010 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .00010 |
| (Na) Perfluoro-1-decanesulfonate | .00010 |
| (NA) Perfluoro-1-heptanesulfonate | .00010 |
| (Na) Perfluoro-1-nonanesulfonate | .00010 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB73**

**Description:** PFAS - DoD Calibration L1

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00010 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00010 |
| Perfluoro-1-butanesulfonate | .00010 |
| Perfluoro-1-hexanesulfonate | .00010 |
| Perfluoro-1-octanesulfonamide | .00010 |
| Perfluoro-1-octanesulfonate | .00010 |
| Perfluoro-n-butanoic Acid | .00010 |
| Perfluoro-n-decanoic Acid | .00010 |
| Perfluoro-n-dodecanoic acid | .00010 |
| Perfluoro-n-heptanoic Acid | .00010 |
| Perfluoro-n-hexanoic acid | .00010 |
| Perfluoro-n-octanoic Acid | .00010 |
| Perfluorononanoic Acid | .00010 |
| Perfluoro-n-pentanoic acid | .00010 |
| Perfluoro-n-tetradecanoic acid | .00010 |
| Perfluoro-n-tridecanoic acid | .00010 |
| Perfluoro-n-undecanoic acid | .00010 |
| Sodium perfluoro-1-pentanesulfonate | .00010 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY23 | Pipette | B814657482 |
| JY25 | Pipette | B814659662 |
| KB71 | Pipette | B814659662 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB74**

**Description:** PFAS - DoD Calibration L2

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JY23 | PFAS - DoD Low ICAL Stock | Solution | ~0 | 07/16/19 | --- | --- | 500 uL | 1 | 10 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB74

**Description:** PFAS - DoD Calibration L2

**Stock Id:** JY23

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| (Na) Perfluoro-1-decanesulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| (NA) Perfluoro-1-heptanesulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| (Na) Perfluoro-1-nonanesulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-1-butanesulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-1-hexanesulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-1-octanesulfonamide | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-1-octanesulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-butanoic Acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-decanoic Acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-dodecanoic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-heptanoic Acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-hexanoic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-octanoic Acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluorononanoic Acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-pentanoic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-tetradecanoic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-tridecanoic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Perfluoro-n-undecanoic acid | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |
| Sodium perfluoro-1-pentanesulfonate | 500 | 0.01 | --- | --- | 1 | 10 | 0.00025 |

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

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It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB74**

**Description:** PFAS - DoD Calibration L2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13C2-6:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-8:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-PFDoA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFTeDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C3-PFHxS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C4-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFHpA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFHxA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFPeA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C6-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C7-PFUnA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-FOSA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C9-PFNA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d3-MeFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d5-EtFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .00025 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .00025 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .00025 |
| (Na) Perfluoro-1-decanesulfonate | .00025 |
| (NA) Perfluoro-1-heptanesulfonate | .00025 |
| (Na) Perfluoro-1-nonanesulfonate | .00025 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

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It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB74**

**Description:** PFAS - DoD Calibration L2

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00025 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00025 |
| Perfluoro-1-butanesulfonate | .00025 |
| Perfluoro-1-hexanesulfonate | .00025 |
| Perfluoro-1-octanesulfonamide | .00025 |
| Perfluoro-1-octanesulfonate | .00025 |
| Perfluoro-n-butanoic Acid | .00025 |
| Perfluoro-n-decanoic Acid | .00025 |
| Perfluoro-n-dodecanoic acid | .00025 |
| Perfluoro-n-heptanoic Acid | .00025 |
| Perfluoro-n-hexanoic acid | .00025 |
| 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 |
| Sodium perfluoro-1-pentanesulfonate | .00025 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY23 | Pipette | B820865811 |
| JY25 | Pipette | B814659662 |
| KB71 | Pipette | B814659662 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB75**

**Description:** PFAS - DoD Calibration L3

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| KB70 | PFAS - DoD High ICAL Stock | Solution | ~0 | 10/01/19 | --- | --- | 100 uL | 1 | 10 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |

| | | | |
|---|---|---|---|
| **Solution Prepared By** Schultz, Stephanie | **Date Prepared:** 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

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It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB75

**Description:** PFAS - DoD Calibration L3

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |

**Stock Id:** KB70

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| (Na) Perfluoro-1-decanesulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| (NA) Perfluoro-1-heptanesulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| (Na) Perfluoro-1-nonanesulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-1-butanesulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| Perfluoro-1-hexanesulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| Perfluoro-1-octanesulfonamide | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-1-octanesulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-butanoic Acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-decanoic Acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-dodecanoic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-heptanoic Acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-hexanoic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| Perfluoro-n-octanoic Acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluorononanoic Acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-pentanoic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00051 |
| Perfluoro-n-tetradecanoic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-tridecanoic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Perfluoro-n-undecanoic acid | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |
| Sodium perfluoro-1-pentanesulfonate | 100 | 0.05 | --- | --- | 1 | 10 | 0.00050 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB75**

**Description:** PFAS - DoD Calibration L3

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13C2-6:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-8:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-PFDoA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFTeDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C3-PFHxS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C4-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFHpA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFHxA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFPeA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C6-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C7-PFUnA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-FOSA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C9-PFNA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d3-MeFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d5-EtFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .00051 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .00051 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .00050 |
| (Na) Perfluoro-1-decanesulfonate | .00051 |
| (NA) Perfluoro-1-heptanesulfonate | .00050 |
| (Na) Perfluoro-1-nonanesulfonate | .00051 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB75**

**Description:** PFAS - DoD Calibration L3

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00050 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00050 |
| Perfluoro-1-butanesulfonate | .00051 |
| Perfluoro-1-hexanesulfonate | .00051 |
| Perfluoro-1-octanesulfonamide | .00050 |
| Perfluoro-1-octanesulfonate | .00050 |
| Perfluoro-n-butanoic Acid | .00050 |
| Perfluoro-n-decanoic Acid | .00050 |
| Perfluoro-n-dodecanoic acid | .00050 |
| Perfluoro-n-heptanoic Acid | .00050 |
| Perfluoro-n-hexanoic acid | .00051 |
| 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 |
| Sodium perfluoro-1-pentanesulfonate | .00050 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | B814659662 |
| KB70 | Pipette | B814659662 |
| KB71 | Pipette | B814659662 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB76**

**Description:** PFAS - DoD Calibration L4

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| KB70 | PFAS - DoD High ICAL Stock | Solution | ~0 | 10/01/19 | --- | --- | 1000 uL | 1 | 50 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 250 uL | 1 | 50 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 250 uL | 1 | 50 | ~0.0000 |

| | | | |
|---|---|---|---|
| **Solution Prepared By** Schultz, Stephanie | **Date Prepared:** 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** 40 **mL X** 2 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB76

**Description:** PFAS - DoD Calibration L4

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C2-PFOA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C3-PFBA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C4-PFOS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |

**Stock Id:** KB70

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| (Na) Perfluoro-1-decanesulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| (NA) Perfluoro-1-heptanesulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| (Na) Perfluoro-1-nonanesulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-1-butanesulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| Perfluoro-1-hexanesulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| Perfluoro-1-octanesulfonamide | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-1-octanesulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-butanoic Acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-decanoic Acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-dodecanoic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-heptanoic Acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-hexanoic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| Perfluoro-n-octanoic Acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluorononanoic Acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-pentanoic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00101 |
| Perfluoro-n-tetradecanoic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-tridecanoic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Perfluoro-n-undecanoic acid | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |
| Sodium perfluoro-1-pentanesulfonate | 1000 | 0.05 | --- | --- | 1 | 50 | 0.00100 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00023 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 2 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB76**

**Description:** PFAS - DoD Calibration L4

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13C2-6:2FTS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C2-8:2FTS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C2-PFDoA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C2-PFTeDA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C3-PFBS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00023 |
| 13C3-PFHxS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C4-PFBA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C4-PFHpA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C5-PFHxA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C5-PFPeA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C6-PFDA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C7-PFUnA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C8-FOSA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C8-PFOA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C8-PFOS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C9-PFNA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| d3-MeFOSAA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| d5-EtFOSAA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .00101 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .00101 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .00100 |
| (Na) Perfluoro-1-decanesulfonate | .00101 |
| (NA) Perfluoro-1-heptanesulfonate | .00100 |
| (Na) Perfluoro-1-nonanesulfonate | .00101 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 2 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

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It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB76**

**Description:** PFAS - DoD Calibration L4

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00100 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00100 |
| Perfluoro-1-butanesulfonate | .00101 |
| Perfluoro-1-hexanesulfonate | .00101 |
| Perfluoro-1-octanesulfonamide | .00100 |
| Perfluoro-1-octanesulfonate | .00100 |
| Perfluoro-n-butanoic Acid | .00100 |
| Perfluoro-n-decanoic Acid | .00100 |
| Perfluoro-n-dodecanoic acid | .00100 |
| Perfluoro-n-heptanoic Acid | .00100 |
| Perfluoro-n-hexanoic acid | .00101 |
| 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 |
| Sodium perfluoro-1-pentanesulfonate | .00100 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | B814657482 |
| KB70 | Pipette | B820865811 |
| KB71 | Pipette | B814657482 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 2 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:40:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB77**

**Description:** PFAS - DoD Calibration L5

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| KB70 | PFAS - DoD High ICAL Stock | Solution | ~0 | 10/01/19 | --- | --- | 2500 uL | 1 | 50 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 250 uL | 1 | 50 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 250 uL | 1 | 50 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 2 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB77

**Description:** PFAS - DoD Calibration L5

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C2-PFOA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C3-PFBA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C4-PFOS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |

**Stock Id:** KB70

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| (Na) Perfluoro-1-decanesulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| (NA) Perfluoro-1-heptanesulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| (Na) Perfluoro-1-nonanesulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-1-butanesulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| Perfluoro-1-hexanesulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| Perfluoro-1-octanesulfonamide | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-1-octanesulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-butanoic Acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-decanoic Acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-dodecanoic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-heptanoic Acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-hexanoic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| Perfluoro-n-octanoic Acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluorononanoic Acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-pentanoic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00253 |
| Perfluoro-n-tetradecanoic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-tridecanoic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Perfluoro-n-undecanoic acid | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |
| Sodium perfluoro-1-pentanesulfonate | 2500 | 0.05 | --- | --- | 1 | 50 | 0.00250 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00023 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 2 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB77

**Description:** PFAS - DoD Calibration L5

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13C2-6:2FTS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C2-8:2FTS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C2-PFDoA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C2-PFTeDA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C3-PFBS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00023 |
| 13C3-PFHxS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C4-PFBA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C4-PFHpA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C5-PFHxA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C5-PFPeA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C6-PFDA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C7-PFUnA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C8-FOSA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C8-PFOA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| 13C8-PFOS | 250 | 0.05 | --- | --- | 1 | 50 | 0.00024 |
| 13C9-PFNA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| d3-MeFOSAA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |
| d5-EtFOSAA | 250 | 0.05 | --- | --- | 1 | 50 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .00253 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .00253 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .00250 |
| (Na) Perfluoro-1-decanesulfonate | .00253 |
| (NA) Perfluoro-1-heptanesulfonate | .00250 |
| (Na) Perfluoro-1-nonanesulfonate | .00253 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 2 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB77**

**Description:** PFAS - DoD Calibration L5

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00250 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00250 |
| Perfluoro-1-butanesulfonate | .00253 |
| Perfluoro-1-hexanesulfonate | .00253 |
| Perfluoro-1-octanesulfonamide | .00250 |
| Perfluoro-1-octanesulfonate | .00250 |
| Perfluoro-n-butanoic Acid | .00250 |
| Perfluoro-n-decanoic Acid | .00250 |
| Perfluoro-n-dodecanoic acid | .00250 |
| Perfluoro-n-heptanoic Acid | .00250 |
| Perfluoro-n-hexanoic acid | .00253 |
| 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 |
| Sodium perfluoro-1-pentanesulfonate | .00250 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | B814657482 |
| KB70 | Pipette | OU16914 |
| KB71 | Pipette | B814657482 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 2 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB78**

**Description:** PFAS - DoD Calibraiton L6

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| KB70 | PFAS - DoD High ICAL Stock | Solution | ~0 | 10/01/19 | --- | --- | 2000 uL | 1 | 10 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB78

**Description:** PFAS - DoD Calibraiton L6

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |

**Stock Id:** KB70

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| (Na) Perfluoro-1-decanesulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| (NA) Perfluoro-1-heptanesulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| (Na) Perfluoro-1-nonanesulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-1-butanesulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| Perfluoro-1-hexanesulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| Perfluoro-1-octanesulfonamide | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-1-octanesulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-butanoic Acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-decanoic Acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-dodecanoic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-heptanoic Acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-hexanoic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| Perfluoro-n-octanoic Acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluorononanoic Acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-pentanoic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01010 |
| Perfluoro-n-tetradecanoic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-tridecanoic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Perfluoro-n-undecanoic acid | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |
| Sodium perfluoro-1-pentanesulfonate | 2000 | 0.05 | --- | --- | 1 | 10 | 0.01000 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB78**

**Description:** PFAS - DoD Calibraiton L6

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13C2-6:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-8:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-PFDoA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFTeDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C3-PFHxS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C4-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFHpA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFHxA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFPeA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C6-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C7-PFUnA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-FOSA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C9-PFNA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d3-MeFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d5-EtFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .01010 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .01010 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .01000 |
| (Na) Perfluoro-1-decanesulfonate | .01010 |
| (NA) Perfluoro-1-heptanesulfonate | .01000 |
| (Na) Perfluoro-1-nonanesulfonate | .01010 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB78**

**Description:** PFAS - DoD Calibraiton L6

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .01000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .01000 |
| Perfluoro-1-butanesulfonate | .01010 |
| Perfluoro-1-hexanesulfonate | .01010 |
| Perfluoro-1-octanesulfonamide | .01000 |
| Perfluoro-1-octanesulfonate | .01000 |
| Perfluoro-n-butanoic Acid | .01000 |
| Perfluoro-n-decanoic Acid | .01000 |
| Perfluoro-n-dodecanoic acid | .01000 |
| Perfluoro-n-heptanoic Acid | .01000 |
| Perfluoro-n-hexanoic acid | .01010 |
| 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 |
| Sodium perfluoro-1-pentanesulfonate | .01000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | B814659662 |
| KB70 | Pipette | OU16914 |
| KB71 | Pipette | B814659662 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB79**

**Description:** PFAS - DoD Calibration L7

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| KB70 | PFAS - DoD High ICAL Stock | Solution | ~0 | 10/01/19 | --- | --- | 4000 uL | 1 | 10 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |

| | | | |
|---|---|---|---|
| **Solution Prepared By** Schultz, Stephanie | **Date Prepared:** 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB79

**Description:** PFAS - DoD Calibration L7

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |

**Stock Id:** KB70

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| (Na) Perfluoro-1-decanesulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| (NA) Perfluoro-1-heptanesulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| (Na) Perfluoro-1-nonanesulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-1-butanesulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| Perfluoro-1-hexanesulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| Perfluoro-1-octanesulfonamide | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-1-octanesulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-butanoic Acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-decanoic Acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-dodecanoic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-heptanoic Acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-hexanoic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| Perfluoro-n-octanoic Acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluorononanoic Acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-pentanoic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02020 |
| Perfluoro-n-tetradecanoic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-tridecanoic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Perfluoro-n-undecanoic acid | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |
| Sodium perfluoro-1-pentanesulfonate | 4000 | 0.05 | --- | --- | 1 | 10 | 0.02000 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

## Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB79**

**Description:** PFAS - DoD Calibration L7

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13C2-6:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-8:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-PFDoA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFTeDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C3-PFHxS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C4-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFHpA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFHxA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFPeA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C6-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C7-PFUnA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-FOSA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C9-PFNA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d3-MeFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d5-EtFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .02020 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .02020 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .02000 |
| (Na) Perfluoro-1-decanesulfonate | .02020 |
| (NA) Perfluoro-1-heptanesulfonate | .02000 |
| (Na) Perfluoro-1-nonanesulfonate | .02020 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB79**

**Description:** PFAS - DoD Calibration L7

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .02000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .02000 |
| Perfluoro-1-butanesulfonate | .02020 |
| Perfluoro-1-hexanesulfonate | .02020 |
| Perfluoro-1-octanesulfonamide | .02000 |
| Perfluoro-1-octanesulfonate | .02000 |
| Perfluoro-n-butanoic Acid | .02000 |
| Perfluoro-n-decanoic Acid | .02000 |
| Perfluoro-n-dodecanoic acid | .02000 |
| Perfluoro-n-heptanoic Acid | .02000 |
| Perfluoro-n-hexanoic acid | .02020 |
| Perfluoro-n-octanoic Acid | .02000 |
| Perfluorononanoic Acid | .02000 |
| Perfluoro-n-pentanoic acid | .02020 |
| Perfluoro-n-tetradecanoic acid | .02000 |
| Perfluoro-n-tridecanoic acid | .02000 |
| Perfluoro-n-undecanoic acid | .02000 |
| Sodium perfluoro-1-pentanesulfonate | .02000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | B814659662 |
| KB70 | Pipette | OU16914 |
| KB71 | Pipette | B814659662 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB80**

**Description:** PFAS - DoD Instrument Blank

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB80

**Description:** PFAS - DoD Instrument Blank

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C2-6:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-8:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-PFDoA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFTeDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C3-PFHxS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C4-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFHpA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFHxA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFPeA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C6-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C7-PFUnA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-FOSA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C9-PFNA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d3-MeFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d5-EtFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB80**

**Description:** PFAS - DoD Instrument Blank

| | |
|---|---|
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | B814659662 |
| KB71 | Pipette | B814659662 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB81**

**Description:** PFAS - DoD ICC

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| KB82 | PFAS - DoD Second Source LCS/MS Solution | Solution | ~0 | 10/01/19 | --- | --- | 200 uL | 1 | 10 | ~0.0000 |
| KB71 | PFAS - DoD High Level Labelled Extracted Internal Standards (SIS) | Solution | ~0 | 10/01/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 50 uL | 1 | 10 | ~0.0000 |

| | | | |
|---|---|---|---|
| **Solution Prepared By** Schultz, Stephanie | **Date Prepared:** 10/1/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB81

**Description:** PFAS - DoD ICC

**Stock Id:** JY25

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |

**Stock Id:** KB71

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C2-6:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-8:2FTS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C2-PFDoA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C2-PFTeDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C3-PFBS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00023 |
| 13C3-PFHxS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C4-PFBA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C4-PFHpA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFHxA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C5-PFPeA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C6-PFDA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C7-PFUnA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-FOSA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| 13C8-PFOS | 50 | 0.05 | --- | --- | 1 | 10 | 0.00024 |
| 13C9-PFNA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d3-MeFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |
| d5-EtFOSAA | 50 | 0.05 | --- | --- | 1 | 10 | 0.00025 |

**Stock Id:** KB82

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00101 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| (Na) Perfluoro-1-decanesulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00101 |
| (NA) Perfluoro-1-heptanesulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| (Na) Perfluoro-1-nonanesulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00101 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB81**

**Description:** PFAS - DoD ICC

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| N-ethylperfluoro-octanesulfonamidoacetic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-1-butanesulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00101 |
| Perfluoro-1-hexanesulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00101 |
| Perfluoro-1-octanesulfonamide | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-1-octanesulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-butanoic Acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-decanoic Acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-dodecanoic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-heptanoic Acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-hexanoic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00101 |
| Perfluoro-n-octanoic Acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluorononanoic Acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-pentanoic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-tetradecanoic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-tridecanoic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Perfluoro-n-undecanoic acid | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |
| Sodium perfluoro-1-pentanesulfonate | 200 | 0.05 | --- | --- | 1 | 10 | 0.00100 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .00101 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .00100 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .00100 |
| (Na) Perfluoro-1-decanesulfonate | .00101 |
| (NA) Perfluoro-1-heptanesulfonate | .00100 |
| (Na) Perfluoro-1-nonanesulfonate | .00101 |
| 13C2-4:2FTS | .00023 |
| 13C2-6:2FTS | .00024 |
| 13C2-8:2FTS | .00024 |
| 13C2-PFDA | .00025 |
| 13C2-PFDoA | .00025 |
| 13C2-PFOA | .00025 |
| 13C2-PFTeDA | .00025 |
| 13C3-PFBA | .00025 |
| 13C3-PFBS | .00023 |
| 13C3-PFHxS | .00024 |
| 13C4-PFBA | .00025 |
| 13C4-PFHpA | .00025 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** **KB81**

**Description:** PFAS - DoD ICC

| | |
|---|---|
| 13C4-PFOS | .00024 |
| 13C5-PFHxA | .00025 |
| 13C5-PFPeA | .00025 |
| 13C6-PFDA | .00025 |
| 13C7-PFUnA | .00025 |
| 13C8-FOSA | .00025 |
| 13C8-PFOA | .00025 |
| 13C8-PFOS | .00024 |
| 13C9-PFNA | .00025 |
| d3-MeFOSAA | .00025 |
| d5-EtFOSAA | .00025 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00100 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00100 |
| Perfluoro-1-butanesulfonate | .00101 |
| Perfluoro-1-hexanesulfonate | .00101 |
| Perfluoro-1-octanesulfonamide | .00100 |
| Perfluoro-1-octanesulfonate | .00100 |
| Perfluoro-n-butanoic Acid | .00100 |
| Perfluoro-n-decanoic Acid | .00100 |
| Perfluoro-n-dodecanoic acid | .00100 |
| Perfluoro-n-heptanoic Acid | .00100 |
| Perfluoro-n-hexanoic acid | .00101 |
| Perfluoro-n-octanoic Acid | .00100 |
| Perfluorononanoic Acid | .00100 |
| Perfluoro-n-pentanoic acid | .00100 |
| Perfluoro-n-tetradecanoic acid | .00100 |
| Perfluoro-n-tridecanoic acid | .00100 |
| Perfluoro-n-undecanoic acid | .00100 |
| Sodium perfluoro-1-pentanesulfonate | .00100 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | B814659662 |
| KB71 | Pipette | B814659662 |
| KB82 | Pipette | B814657482 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:41:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB82**

**Description:** PFAS - DoD Second Source LCS/MS Solution

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| 170724-01 | PFOA - 2nd Source | Neat | ~1.000000 | 03/22/22 | --- | --- | 1000 uL | 1 | 20 | ~0.0500 |

| | | | |
|---|---|---|---|
| **Solution Prepared By:** Schultz, Stephanie | **Date Prepared:** 10/1/2018 | **Expiration Date:** | 10/1/2019 |
| **Solution Volume** 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 10/12/2018 8:05:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB82

**Description:** PFAS - DoD Second Source LCS/MS Solution

**Stock Id:** 170724-01

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) Perfluoro-1-decanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| (NA) Perfluoro-1-heptanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| (Na) Perfluoro-1-nonanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-1-butanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-1-hexanesulfonate | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-1-octanesulfonamide | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-1-octanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-butanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-decanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-dodecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-heptanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-hexanoic acid | 1000 | 1.01 | 1 | 100.000 | 1 | 20 | 0.05050 |
| Perfluoro-n-octanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluorononanoic Acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-pentanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-tetradecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-tridecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Perfluoro-n-undecanoic acid | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |
| Sodium perfluoro-1-pentanesulfonate | 1000 | 1.00 | 1 | 100.000 | 1 | 20 | 0.05000 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate | .05050 |
| (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate | .05000 |
| (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate | .05000 |
| (Na) Perfluoro-1-decanesulfonate | .05050 |
| (NA) Perfluoro-1-heptanesulfonate | .05000 |
| (Na) Perfluoro-1-nonanesulfonate | .05050 |
| N-ethylperfluoro-octanesulfonamidoacetic acid | .05000 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .05000 |
| Perfluoro-1-butanesulfonate | .05050 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 10/1/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 10/12/2018 8:05:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number: KB82**

**Description:** PFAS - DoD Second Source LCS/MS Solution

| | |
|---|---|
| Perfluoro-1-hexanesulfonate | .05050 |
| Perfluoro-1-octanesulfonamide | .05000 |
| Perfluoro-1-octanesulfonate | .05000 |
| Perfluoro-n-butanoic Acid | .05000 |
| Perfluoro-n-decanoic Acid | .05000 |
| Perfluoro-n-dodecanoic acid | .05000 |
| Perfluoro-n-heptanoic Acid | .05000 |
| Perfluoro-n-hexanoic acid | .05050 |
| Perfluoro-n-octanoic Acid | .05000 |
| Perfluorononanoic Acid | .05000 |
| Perfluoro-n-pentanoic acid | .05000 |
| Perfluoro-n-tetradecanoic acid | .05000 |
| Perfluoro-n-tridecanoic acid | .05000 |
| Perfluoro-n-undecanoic acid | .05000 |
| Sodium perfluoro-1-pentanesulfonate | .05000 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| 170724-01 | Pipette | B820865811 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/1/2018 **Expiration Date:** 10/1/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 10/12/2018 8:05:00 AM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number:** KB89

**Description:** PFAS Branched Solution (~5,000 ng/L)

**Stock Id:** JX28

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| N-ethylperfluoro-octanesulfonamidoacetic acid | 100 | 0.50 | --- | --- | 1 | 10 | 0.00500 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | 100 | 0.50 | --- | --- | 1 | 10 | 0.00500 |
| Perfluoro-1-hexanesulfonate | 100 | 0.50 | --- | --- | 1 | 10 | 0.00500 |
| Perfluoro-1-octanesulfonate | 100 | 0.50 | --- | --- | 1 | 10 | 0.00500 |
| Perfluoro-n-octanoic Acid | 100 | 0.50 | --- | --- | 1 | 10 | 0.00500 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| N-ethylperfluoro-octanesulfonamidoacetic acid | .00500 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid | .00500 |
| Perfluoro-1-hexanesulfonate | .00500 |
| Perfluoro-1-octanesulfonate | .00500 |
| Perfluoro-n-octanoic Acid | .00500 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JX28 | Pipette | B814659662 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/3/2018 **Expiration Date:** 6/18/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:43:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KB89**

**Description:** PFAS Branched Solution (~5,000 ng/L)

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JX28 | PFAS Branched Standard Stock | Solution | ~0 | 06/18/19 | --- | --- | 100 uL | 1 | 10 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/3/2018 | **Expiration Date** | 6/18/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 80/20 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 9:43:00 AM

BATTELLE
It can be done

# Standard Solution Prep Form II

Approved: ☑

**Standard Laboratory ID Number:** **KC03**

**Description:** PFAS - DoD Internal Standard Spiking Solution

| Assigned Lab ID (from receipt log) | Chemical Name: | Source | Stock (ug/mL) | Expir. Date | Purity (%) | Density (g/mL) | Amount Taken | Conv. Fact. | Final Vol. (mL) | Std. Conc. (ug/mL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JY25 | PFAS - DoD Internal Standard Stock Solution | Solution | ~0 | 07/16/19 | --- | --- | 2500 uL | 1 | 25 | ~0.0000 |

| | | | | | |
|---|---|---|---|---|---|
| **Solution Prepared By** | Schultz, Stephanie | **Date Prepared:** | 10/9/2018 | **Expiration Date** | 7/16/2019 |
| **Solution Volume** | 40 **mL X** 1 **Vials** | **Refrigerator/Freezer No:** | LC Laboratory: Refrigerator - R0107 | | |

**Balance ID:** _____

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 4:15:00 PM

BATTELLE
It can be done

# Standard Solution Concentrations

Approved: ☑

**Standard Laboratory ID Number: KC03**

**Description:** PFAS - DoD Internal Standard Spiking Solution

**Stock Id: JY25**

| Chemical Name | Stock Amount uL | Initial Conc. (ug/mL) | Density (g/mL) | Purity | Conv. Factor | Final Vol mL | Concentration (ug/mL) |
|---|---|---|---|---|---|---|---|
| 13C2-PFDA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C2-PFOA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C3-PFBA | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00500 |
| 13C4-PFOS | 2500 | 0.05 | --- | --- | 1 | 25 | 0.00479 |

**Final Concentrations:**

| Analyte: | Conc (ug/mL): |
|---|---|
| 13C2-PFDA | .00500 |
| 13C2-PFOA | .00500 |
| 13C3-PFBA | .00500 |
| 13C4-PFOS | .00479 |

**Syringes/Pipettes:**

| Stock ID: | Type: | Battelle ID: |
|---|---|---|
| JY25 | Pipette | OU16914 |

**Solution Prepared By:** Schultz, Stephanie **Date Prepared:** 10/9/2018 **Expiration Date:** 7/16/2019

**Solution Volume** 40 **mL X** 1 **Vials** **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/9/2018 4:15:00 PM

BATTELLE
It can be done

**BDO Id:** 170724-01

# Reagent Receipt Report

**Approved:** ☐ **Authorized** ☐

**Name:** PFOA- 2nd Source
**Vendor:** ABSOLUTE STANDARDS
**Catalogue No:** 99207
**Type:** Solution
**Lot No:** 032217
**Quantity:** 5 ea mL **% Moisture:**
**Description:** PFOA - 2nd Source

**Received:** 7/24/2017
**Custodian:** Schumitz, Matt
**Expires:** 3/22/2022
**Consumed:**
**Stored In:** LC Laboratory - F0111

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|
| (Na) 1H,1H,2H,2H-Perfluorodecane | 39108-34-4 | 1.0100 | 100.00 | -- | -- | ☐ | | | |
| (Na) 1H,1H,2H,2H-Perfluorohexane s | 414911-30-1 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| (Na) 1H,1H,2H,2H-Perfluorooctane s | 27619-97-2 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| (Na) Perfluoro-1-decanesulfonate | 2806-15-7 | 1.0100 | 100.00 | -- | -- | ☐ | | | |
| (NA) Perfluoro-1-heptanesulfonate | 375-92-8 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| (Na) Perfluoro-1-nonanesulfonate | 98789-57-2 | 1.0100 | 100.00 | -- | -- | ☐ | | | |
| N-ethylperfluoro-octanesulfonamidoa | 2991-50-6 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| N-methylperfluoro-1-octanesulfonami | 2355-31-9 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-1-butanesulfonate | 375-73-5 | 1.0100 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-1-hexanesulfonate | 355-46-4 | 1.0100 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-1-octanesulfonamide | 754-91-6 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-1-octanesulfonate | 1763-23-1 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-butanoic Acid | 375-22-4 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-decanoic Acid | 335-76-2 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-dodecanoic acid | 307-55-1 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-heptanoic Acid | 375-85-9 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-hexanoic acid | 307-24-4 | 1.0100 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-octanoic Acid | 335-67-1 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluorononanoic Acid | 375-95-1 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-pentanoic acid | 2706-90-3 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-tetradecanoic acid | 376-06-7 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-tridecanoic acid | 72629-94-8 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Perfluoro-n-undecanoic acid | 2058-94-8 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| Sodium perfluoro-1-pentanesulfonate | 2706-91-4 | 1.0000 | 100.00 | -- | -- | ☐ | | | |

**Total Analytes:** 24

**Notes:**

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

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

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***



ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

17024-01

**Part Number:** 99207
**Lot Number:** 032217
**Description:** PFOA - DOD
24 components
**Expiration Date:** 032222
**Recommended Storage:** Freezer (0 °C)
**Nominal Concentration (µg/mL):** 1.0
**NIST Test ID#:** 822-275872-11

| Solvent(s): | Lot# | |
|---|---|---|
| Methanol (1 mM KOH) | 031317 | (98%) |
| 2-Propanol | 23214 | (2%) |

5E-05 Balance Uncertainty
0.007 Flask Uncertainty

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

Paul Barron 032217
Formulated By: Paul Barron DATE

Pedro Rentas 032217
Reviewed By: Pedro L. Rentas DATE

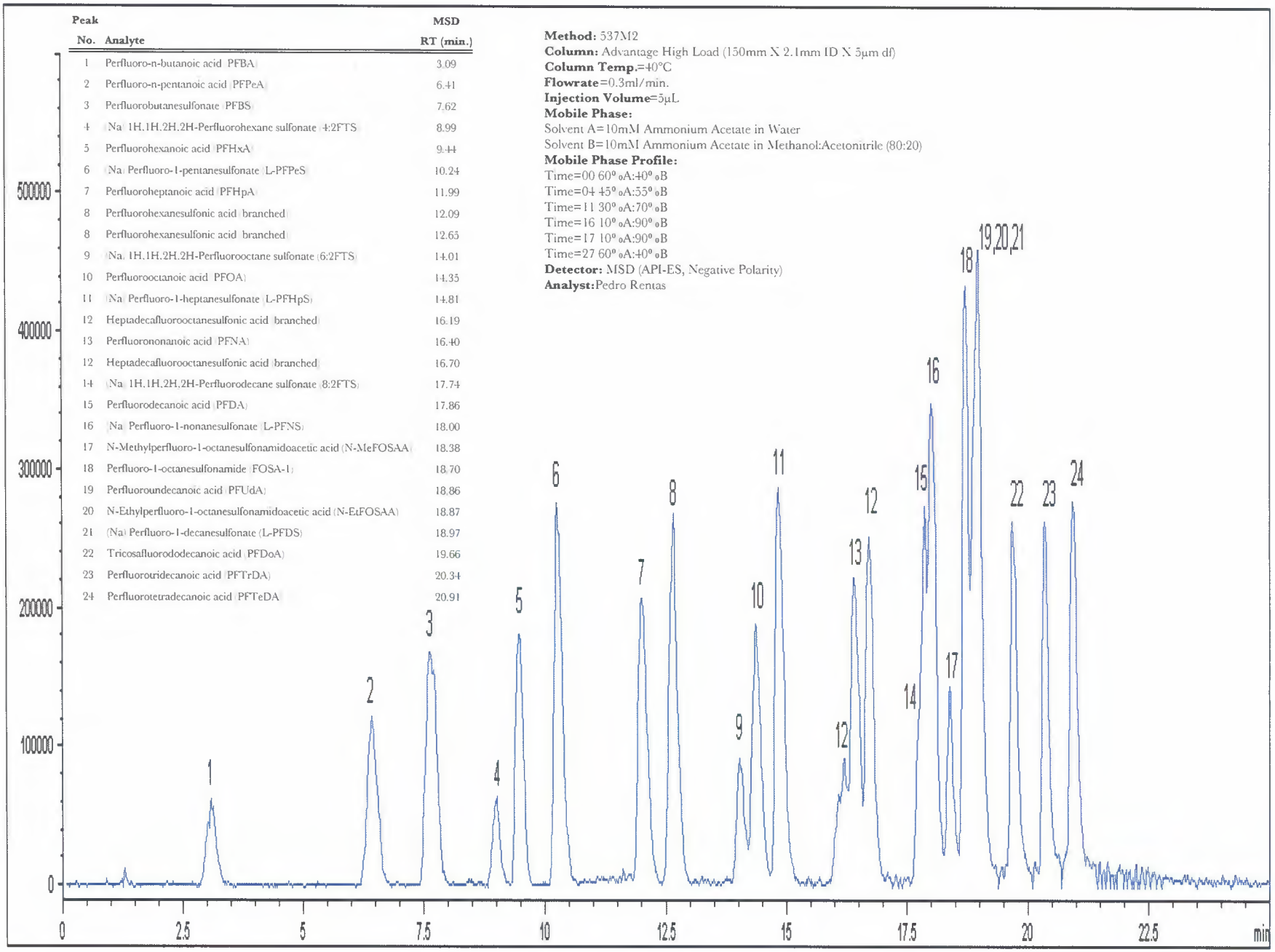
**Note: All assigned values are anion concentrations.**

| | 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-butanoic acid | 3670 | PFBA0516 | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 375-22-4 | N/A | N/A |
| 2. | Perfluoro-n-pentanoic acid | 3669 | PFPeA0516 | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 2706-90-3 | N/A | N/A |
| 3. | Perfluorohexanoic acid | 99199 | 030617 | 0.02 | 1.00 | 0.004 | 50.3 | 1.01 | 0.01 | 307-24-4 | N/A | N/A |
| 4. | Perfluoroheptanoic acid | 99197 | 030517 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 375-85-9 | N/A | N/A |
| 5. | Perfluorooctanoic acid | 99202 | 030617 | 0.02 | 1.00 | 0.004 | 50.2 | 1.00 | 0.01 | 335-67-1 | N/A | ipr-rat 189mg/kg |
| 6. | Perfluorononanoic acid | 99200 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 375-95-1 | N/A | N/A |
| 7. | Perfluorodecanoic acid | 99195 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 335-76-2 | N/A | orl-rat 57mg/kg |
| 8. | Perfluoroundecanoic acid | 99205 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 2058-94-8 | N/A | N/A |
| 9. | Tricosafluorododecanoic acid | 99196 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 307-55-1 | N/A | N/A |
| 10. | Perfluorotridecanoic acid | 99204 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 72629-94-8 | N/A | N/A |
| 11. | Perfluorotetradecanoic acid | 99203 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 376-06-7 | N/A | N/A |
| 12. | Perfluoro-1-octanesulfonamide | 3677 | FOSA0916I | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 754-91-6 | N/A | N/A |
| 13. | N-Methylperfluoro-1-octanesulfonamidoacetic acid | 3667 | NMeFOSAA0117 | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 2355-31-9 | N/A | N/A |
| 14. | N-Ethylperfluoro-1-octanesulfonamidoacetic acid | 3664 | NEtFOSAA0117 | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 2991-50-6 | N/A | N/A |
| 15. | Perfluorobutanesulfonic acid | 99194 | 031017 | 0.02 | 1.00 | 0.004 | 50.7 | 1.01 | 0.01 | 375-73-5 | N/A | N/A |
| 16. | Perfluoro-1-pentanesulfonic acid | 3956 | LPFPeS0117 | 0.0214 | 1.07 | 0.004 | 46.9 | 1.00 | 0.01 | 00-00-0 | N/A | N/A |
| 17. | Perfluorohexanesulfonic acid (branched) | 99198 | 030617 | 0.02 | 1.00 | 0.004 | 50.6 | 1.01 | 0.01 | 3871-99-6 | N/A | N/A |
| 18. | Perfluoro-1-heptanesulfonic acid | 3672 | LPFHpS1016 | 0.021 | 1.05 | 0.004 | 47.6 | 1.00 | 0.01 | 375-92-8 | N/A | N/A |
| 19. | Heptadecafluorooctanesulfonic acid (branched) | 99201 | 030617 | 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 | LPFNS0516 | 0.021 | 1.05 | 0.004 | 48.0 | 1.01 | 0.01 | 98789-57-2 | N/A | N/A |
| 21. | Perfluoro-1-decanesulfonic acid | 3671 | LPFDS0217 | 0.021 | 1.05 | 0.004 | 48.2 | 1.01 | 0.01 | 2806-15-7 | N/A | N/A |
| 22. | 1H,1H,2H,2H-Perfluorohexane sulfonic acid | 3955 | 42FTS1216 | 0.0214 | 1.07 | 0.004 | 46.7 | 1.00 | 0.01 | 00-00-0 | N/A | N/A |
| 23. | 1H,1H,2H,2H-Perfluorooctane sulfonic acid | 3661 | 62FTS0616 | 0.021 | 1.05 | 0.004 | 47.4 | 1.00 | 0.01 | 27619-97-2 | N/A | N/A |
| 24. | 1H,1H,2H,2H-Perfluorodecane sulfonic acid | 3662 | 82FTS1216 | 0.021 | 1.05 | 0.004 | 47.9 | 1.01 | 0.01 | 39108-34-4 | N/A | N/A |

- 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 certifed (+/-) 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).

| Peak No. | Analyte | MSD RT (min.) |
|---|---|---|
| 1 | Perfluoro-n-butanoic acid (PFBA) | 3.09 |
| 2 | Perfluoro-n-pentanoic acid (PFPeA) | 6.41 |
| 3 | Perfluorobutanesulfonate (PFBS) | 7.62 |
| 4 | (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate (4:2FTS) | 8.99 |
| 5 | Perfluorohexanoic acid (PFHxA) | 9.44 |
| 6 | (Na) Perfluoro-1-pentanesulfonate (L-PFPeS) | 10.24 |
| 7 | Perfluoroheptanoic acid (PFHpA) | 11.99 |
| 8 | Perfluorohexanesulfonic acid (branched) | 12.09 |
| 8 | Perfluorohexanesulfonic acid (branched) | 12.65 |
| 9 | (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate (6:2FTS) | 14.01 |
| 10 | Perfluorooctanoic acid (PFOA) | 14.35 |
| 11 | (Na) Perfluoro-1-heptanesulfonate (L-PFHpS) | 14.81 |
| 12 | Heptadecafluorooctanesulfonic acid (branched) | 16.19 |
| 13 | Perfluorononanoic acid (PFNA) | 16.40 |
| 12 | Heptadecafluorooctanesulfonic acid (branched) | 16.70 |
| 14 | (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2FTS) | 17.74 |
| 15 | Perfluorodecanoic acid (PFDA) | 17.86 |
| 16 | (Na) Perfluoro-1-nonanesulfonate (L-PFNS) | 18.00 |
| 17 | N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | 18.38 |
| 18 | Perfluoro-1-octanesulfonamide (FOSA-1) | 18.70 |
| 19 | Perfluoroundecanoic acid (PFUdA) | 18.86 |
| 20 | N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | 18.87 |
| 21 | (Na) Perfluoro-1-decanesulfonate (L-PFDS) | 18.97 |
| 22 | Tricosafluorododecanoic acid (PFDoA) | 19.66 |
| 23 | Perfluorotridecanoic acid (PFTrDA) | 20.34 |
| 24 | Perfluorotetradecanoic acid (PFTeDA) | 20.91 |

**Method:** 537M2
**Column:** Advantage High Load (150mm X 2.1mm ID X 5µm df)
**Column Temp.**=40°C
**Flowrate**=0.3ml/min.
**Injection Volume**=5µL
**Mobile Phase:**
Solvent A=10mM Ammonium Acetate in Water
Solvent B=10mM Ammonium Acetate in Methanol:Acetonitrile (80:20)
**Mobile Phase Profile:**
Time=00 60% A:40% B
Time=04 45% A:55% B
Time=11 30% A:70% B
Time=16 10% A:90% B
Time=17 10% A:90% B
Time=27 60% A:40% B
**Detector:** MSD (API-ES, Negative Polarity)
**Analyst:** Pedro Rentas



BATTELLE

It can be done

BDO Id: 180618-02

# Reagent Receipt Report

Approved: ☐ Authorized ☐

| | | | |
|---|---|---|---|
| Name: | Branched NEtFOSAA Standard (50 µ | Received: | 6/18/2018 |
| Vendor: | Wellington Laboratories | Custodian: | Thorn, Jonathan |
| Catalogue No: | br-NEtFOSAAA | Expires: | 1/17/2023 |
| Type: | Solution | Consumed: | |
| Lot No: | brNEtFOSAA0118 | Stored In: | Sample Preparation - C0103 |
| Quantity: | 1 ea mL % Moisture: 0 | | |
| Description: | Branched NEtFOSAA Standard (50 µg/mL) | | |

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|

Notes:

Approved by: _____ Approved on: _____

Authorized by: _____ Authorized on: _____

180618-02

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

# br-NEtFOSAA

**N-Ethylperfluorooctanesulfonamidoacetic Acid Solution/Mixture of Linear and Branched Isomers**

| | |
|---|---|
| **PRODUCT CODE:** | br-NEtFOSAA |
| **LOT NUMBER:** | brNEtFOSAA0118 |
| **CONCENTRATION:** | 50.0 ± 2.5 µg/ml |
| **SOLVENT(S):** | Methanol/Water (<1%) |
| **DATE PREPARED:** (mm/dd/yyyy) | 01/10/2018 |
| **LAST TESTED:** (mm/dd/yyyy) | 01/17/2018 |
| **EXPIRY DATE:** (mm/dd/yyyy) | 01/17/2023 |
| **RECOMMENDED STORAGE:** | Refrigerate ampoule |

## DESCRIPTION:

The chemical purity has been determined to be ≥98% N-ethylperfluorooctanesulfonamidoacetic acid (linear and branched isomers). The full name, structure and percent composition for each of the identified isomeric components are given in Table A.

## DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by $^{19}$F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: 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 acetic acid moiety to its respective methyl ester.

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## INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

## HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

## SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

## HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

## UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value $y$ and the uncertainty of the independent parameters $x_1$, $x_2$,...$x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

## TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

## EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

## LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

## QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED 17034 REFERENCE MATERIAL PRODUCER

**For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com**

**Table A:** **br-NEtFOSAA; Isomeric Components and Percent Composition (by $^{19}$F-NMR)***

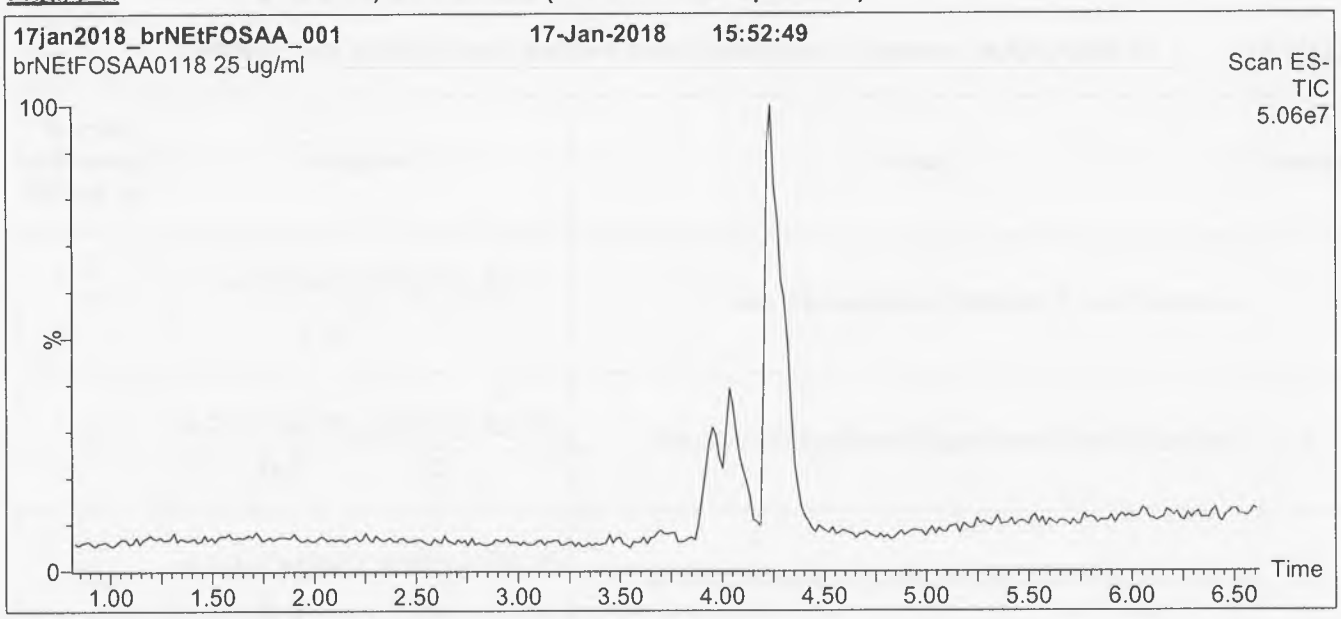
| Isomer | Name | Structure | Percent Composition by $^{19}$F-NMR |
|---|---|---|---|
| 1 | N-ethylperfluoro-1-octanesulfonamidoacetic acid | $CF_3(CF_2)_7SO_2N(C_2H_5)CH_2CO_2H$ | 77.5 |
| 2 | N-ethylperfluoro-3-methylheptanesulfonamidoacetic acid | $CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_2N(C_2H_5)CH_2CO_2H$ | 2.3 |
| 3 | N-ethylperfluoro-4-methylheptanesulfonamidoacetic acid | $CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_2N(C_2H_5)CH_2CO_2H$ | 2.2 |
| 4 | N-ethylperfluoro-5-methylheptanesulfonamidoacetic acid | $CF_3CF_2CF(CF_3)(CF_2)_4SO_2N(C_2H_5)CH_2CO_2H$ | 5.4 |
| 5 | N-ethylperfluoro-6-methylheptanesulfonamidoacetic acid | $CF_3CF(CF_3)(CF_2)_5SO_2N(C_2H_5)CH_2CO_2H$ | 10.4 |
| 6 | N-ethylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid | $CF_3C(CF_3)_2(CF_2)_4SO_2N(C_2H_5)CH_2CO_2H$ | 0.3 |
| 7 | N-ethylperfluoro-4,5-dimethylhexanesulfonamidoacetic acid | $CF_3CF(CF_3)CF(CF_2)_3SO_2N(C_2H_5)CH_2CO_2H$ | 0.3 |
| 8 | N-ethylperfluoro-3,5-dimethylhexanesulfonamidoacetic acid | $CF_3CF(CF_3)CF_2CF(CF_2)_2SO_2N(C_2H_5)CH_2CO_2H$ | 0.3 |
| 9 | Other Unidentified Isomers | | 1.3 |

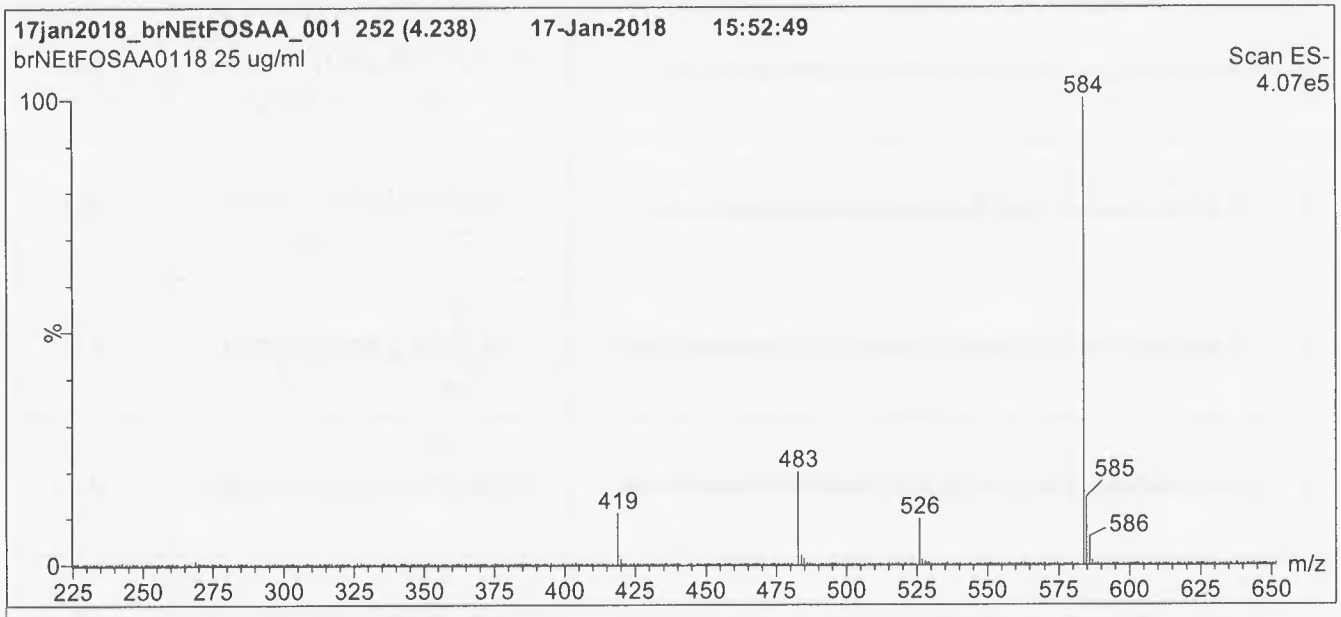
* Percent of total N-ethylperfluorooctanesulfonamidoacetic acid isomers only.

**Certified By:** _____ **Date:** 03/22/2018
(mm/dd/yyyy)

B.G. Chittim, General Manager

**Figure 1:** **br-NEtFOSAA; LC/MS Data (TIC and Mass Spectrum)**




**Conditions for Figure 1:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 90% organic over 7 min and hold for
2 min before returning to initial conditions in 0.5 min.

Time: 10 min

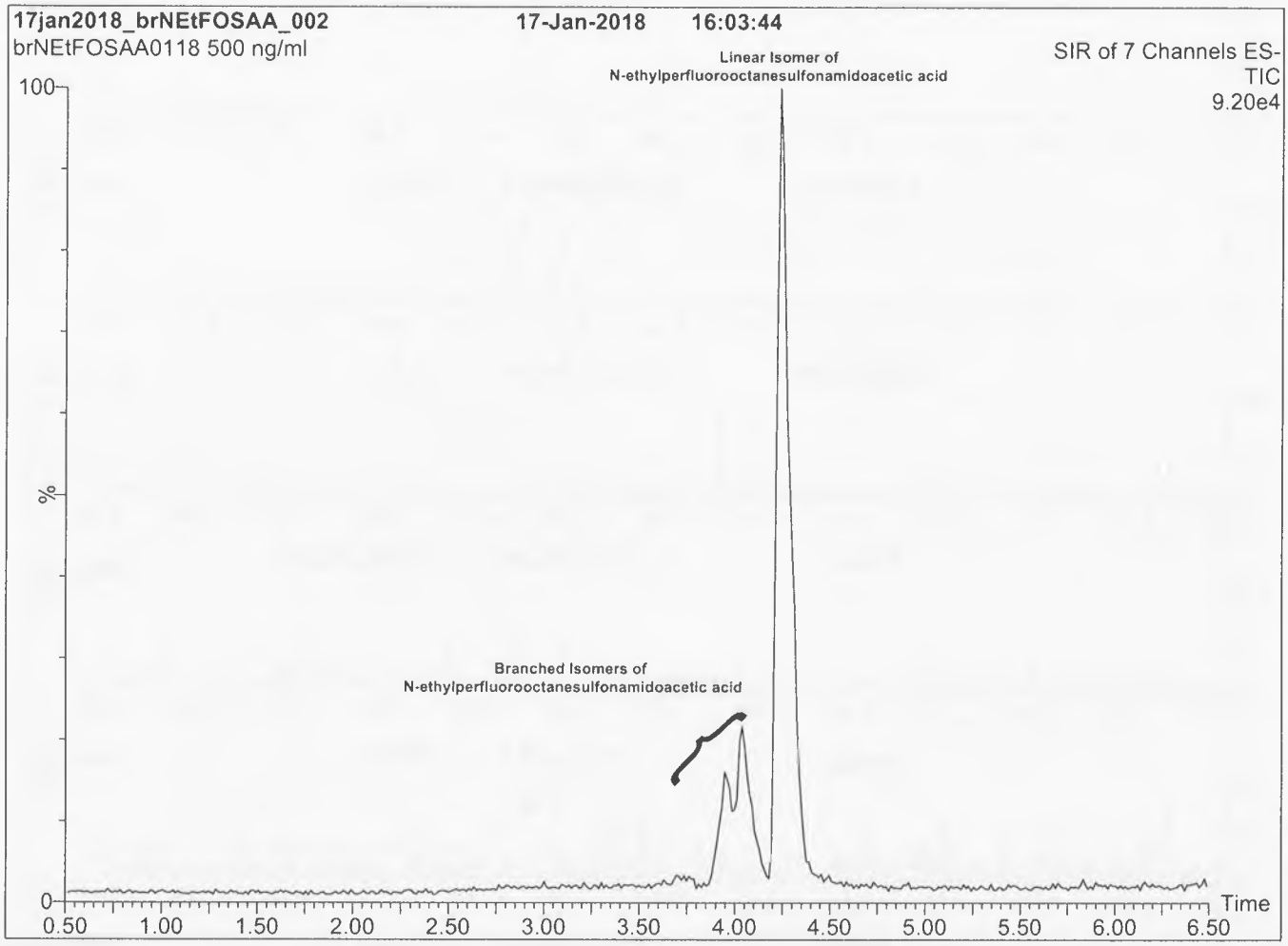
Flow: 300 µl/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** **br-NEtFOSAA; LC/MS Data (SIR)**




**Conditions for Figure 2:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 90% organic over 7 min and hold for
2 min before returning to initial conditions in 0.5 min.

Time: 10 min

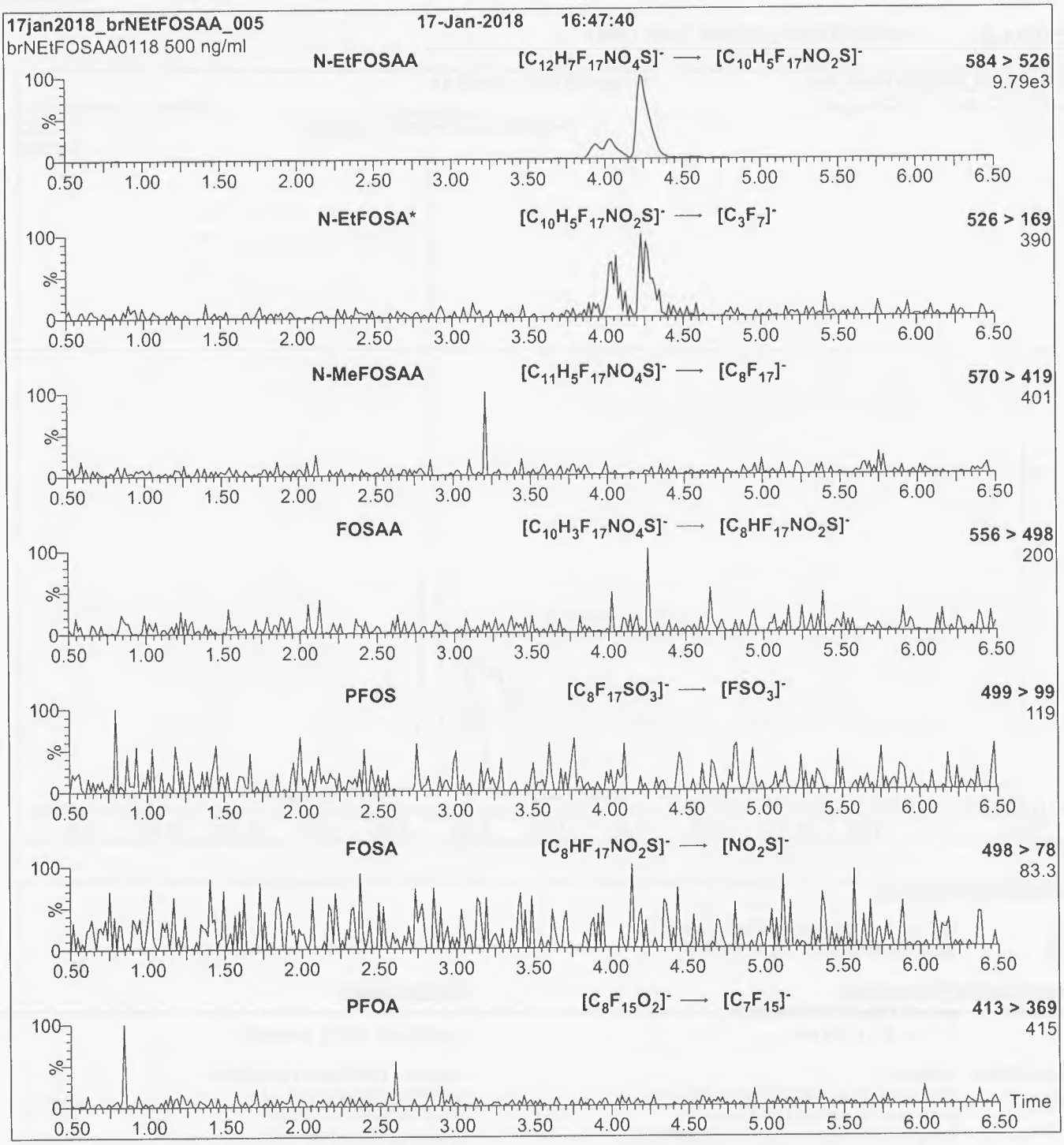
Flow: 300 µl/min

**MS Parameters**

Experiment: SIR (7 channels)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15-60
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

**Figure 3:** **br-NEtFOSAA; LC/MS/MS Data (Selected MRM Transitions)**




***Note**: N-EtFOSA is formed by in-source fragmentation.

**Conditions for Figure 3:**

Injection: On-column

Mobile phase: Same as Figure 2

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 11-40 (variable)

BATTELLE

It can be done

BDO Id: 180618-03

# Reagent Receipt Report

Approved: ☐ Authorized ☐

| | | | |
|---|---|---|---|
| Name: | Branched NMeFOSAA Standard (50 | Received: | 6/18/2018 |
| Vendor: | Wellington Laboratories | Custodian: | Thorn, Jonathan |
| Catalogue No: | brNMeFOSAA | Expires: | 1/17/2023 |
| Type: | Solution | Consumed: | |
| Lot No: | brNMeFOSAA0118 | Stored In: | Sample Preparation - C0103 |
| Quantity: | 1 ea mL % Moisture: 0 | | |
| Description: | Branched NMeFOSAA Standard (50 µg/mL) | | |

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|

Notes:

Approved by: _____ Approved on: _____

Authorized by: _____ Authorized on: _____

180618-03

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

# br-NMeFOSAA

**N-Methylperfluorooctanesulfonamidoacetic Acid Solution/Mixture of Linear and Branched Isomers**

| | |
|---|---|
| **PRODUCT CODE:** | br-NMeFOSAA |
| **LOT NUMBER:** | brNMeFOSAA0118 |
| **CONCENTRATION:** | 50.0 ± 2.5 µg/ml |
| **SOLVENT(S):** | Methanol/Water (<1%) |
| **DATE PREPARED:** (mm/dd/yyyy) | 01/10/2018 |
| **LAST TESTED:** (mm/dd/yyyy) | 01/17/2018 |
| **EXPIRY DATE:** (mm/dd/yyyy) | 01/17/2023 |
| **RECOMMENDED STORAGE:** | Refrigerate ampoule |

## DESCRIPTION:

The chemical purity has been determined to be ≥98% N-methylperfluorooctanesulfonamidoacetic acid (linear and branched isomers). The full name, structure and percent composition for each of the identified isomeric components are given in Table A.

## DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by $^{19}$F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: 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 acetic acid moiety to its respective methyl ester.

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*519-822-2436 • Fax: 519-822-2849 • info@well-labs.com*

## INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

## HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

## SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

## HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

## UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value $y$ and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

## TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

## EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

## LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

## QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

**For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com**

**Table A:** **br-NMeFOSAA; Isomeric Components and Percent Composition (by $^{19}$F-NMR)***

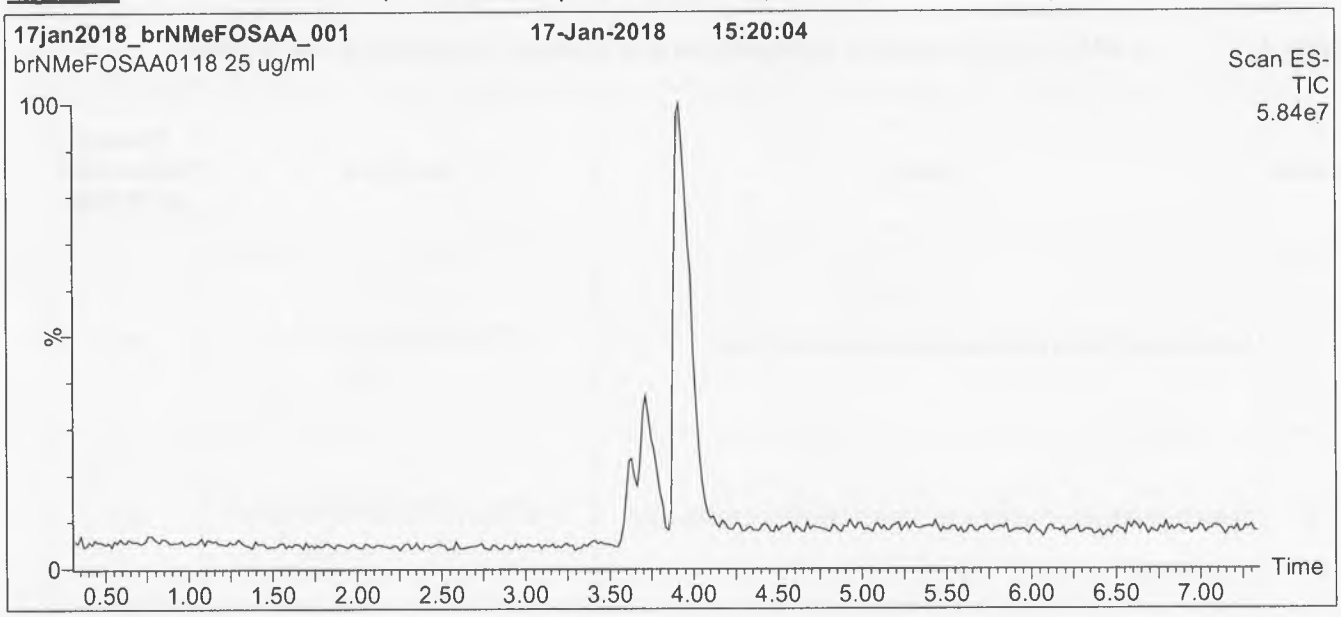
| Isomer | Name | Structure | Percent Composition by $^{19}$F-NMR |
|---|---|---|---|
| 1 | N-methylperfluoro-1-octanesulfonamidoacetic acid | $CF_3(CF_2)_7SO_2N(CH_3)CH_2CO_2H$ | 76.0 |
| 2 | N-methylperfluoro-3-methylheptanesulfonamidoacetic acid | $CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_2N(CH_3)CH_2CO_2H$ | 0.7 |
| 3 | N-methylperfluoro-4-methylheptanesulfonamidoacetic acid | $CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_2N(CH_3)CH_2CO_2H$ | 2.0 |
| 4 | N-methylperfluoro-5-methylheptanesulfonamidoacetic acid | $CF_3CF_2CF(CF_3)(CF_2)_4SO_2N(CH_3)CH_2CO_2H$ | 6.0 |
| 5 | N-methylperfluoro-6-methylheptanesulfonamidoacetic acid | $CF_3CF(CF_3)(CF_2)_5SO_2N(CH_3)CH_2CO_2H$ | 14.0 |
| 6 | N-methylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid | $CF_3C(CF_3)_2(CF_2)_4SO_2N(CH_3)CH_2CO_2H$ | 0.2 |
| 7 | Other Unidentified Isomers | | 1.1 |

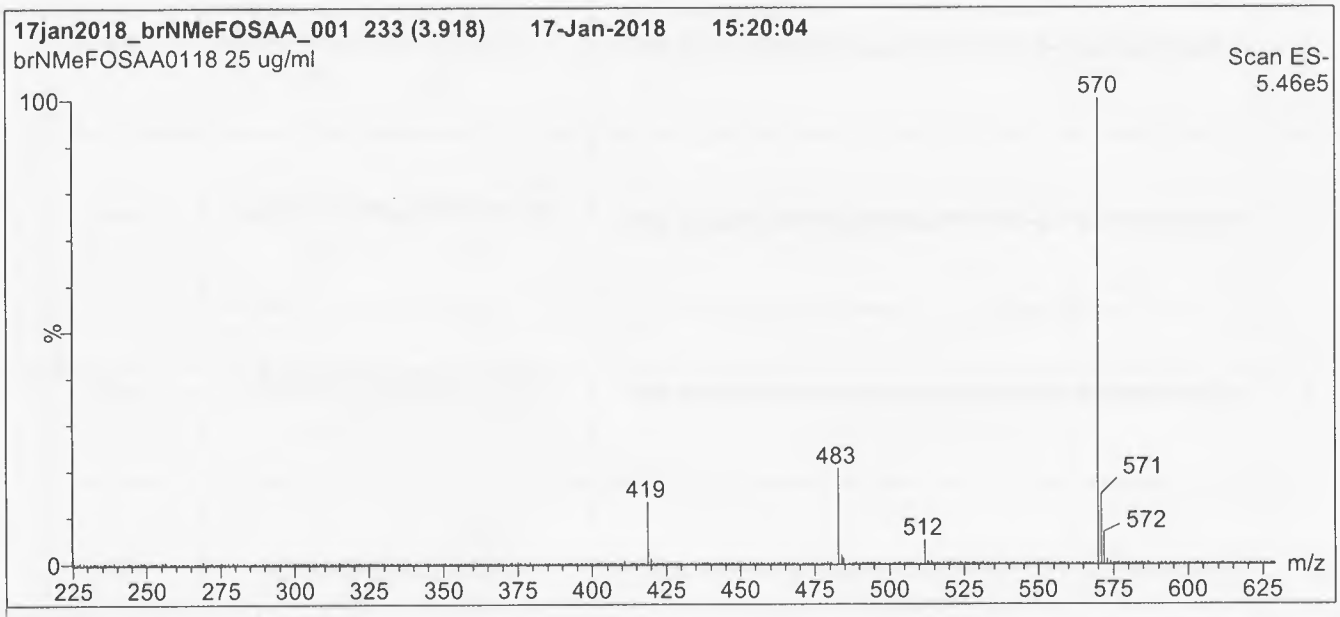
* Percent of total N-methylperfluorooctanesulfonamidoacetic acid isomers only.

**Certified By:** _____ **Date:** 03/22/2018 (mm/dd/yyyy)

B.G. Chittim, General Manager

**Figure 1:** **br-NMeFOSAA; LC/MS Data (TIC and Mass Spectrum)**




**Conditions for Figure 1:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 90% organic over 7 min and hold for
2 min before returning to initial conditions in 0.5 min.

Time: 10 min

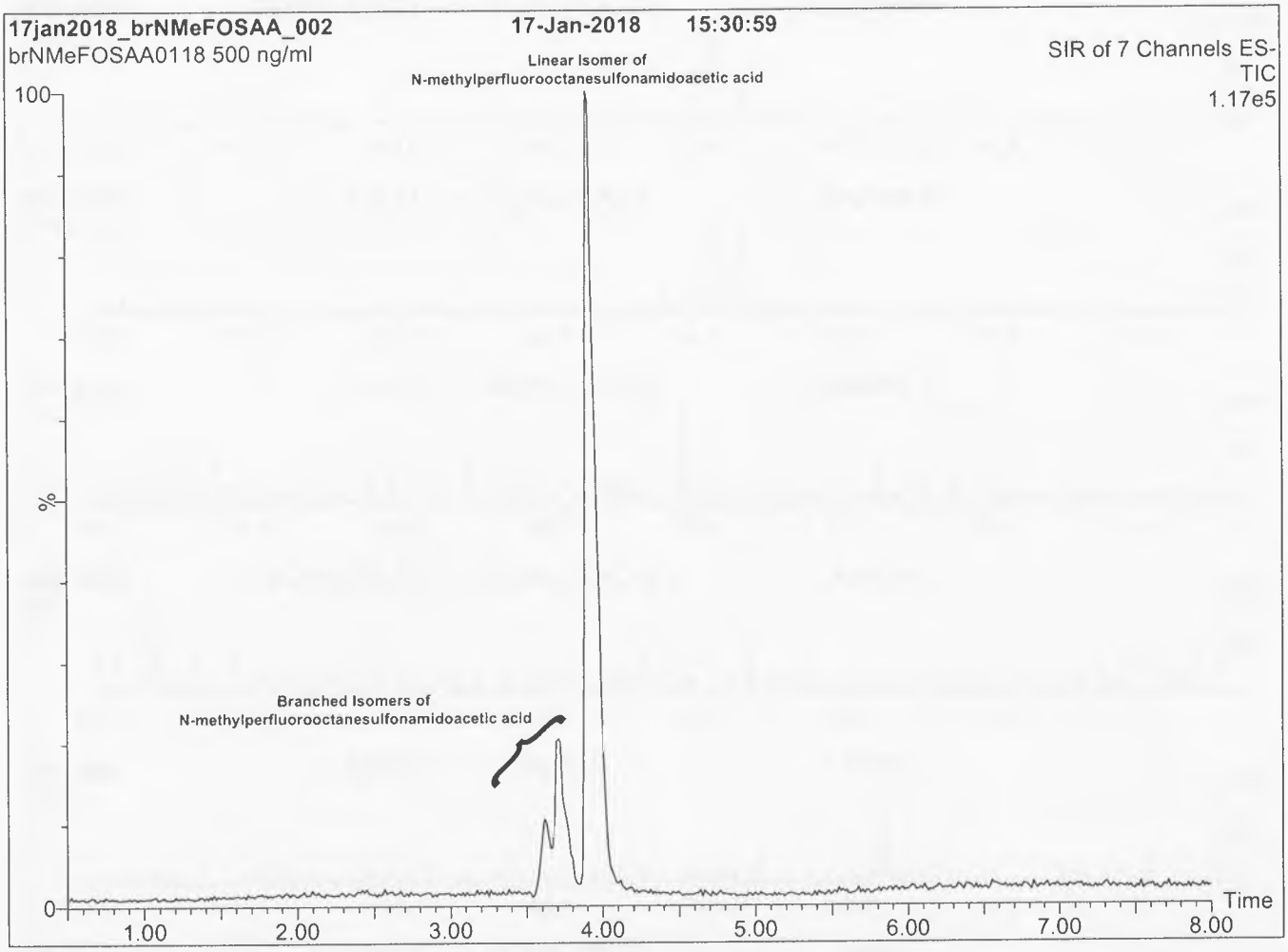
Flow: 300 µl/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** **br-NMeFOSAA; LC/MS Data (SIR)**




**Conditions for Figure 2:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 90% organic over 7 min and hold for
2 min before returning to initial conditions in 0.5 min.

Time: 10 min

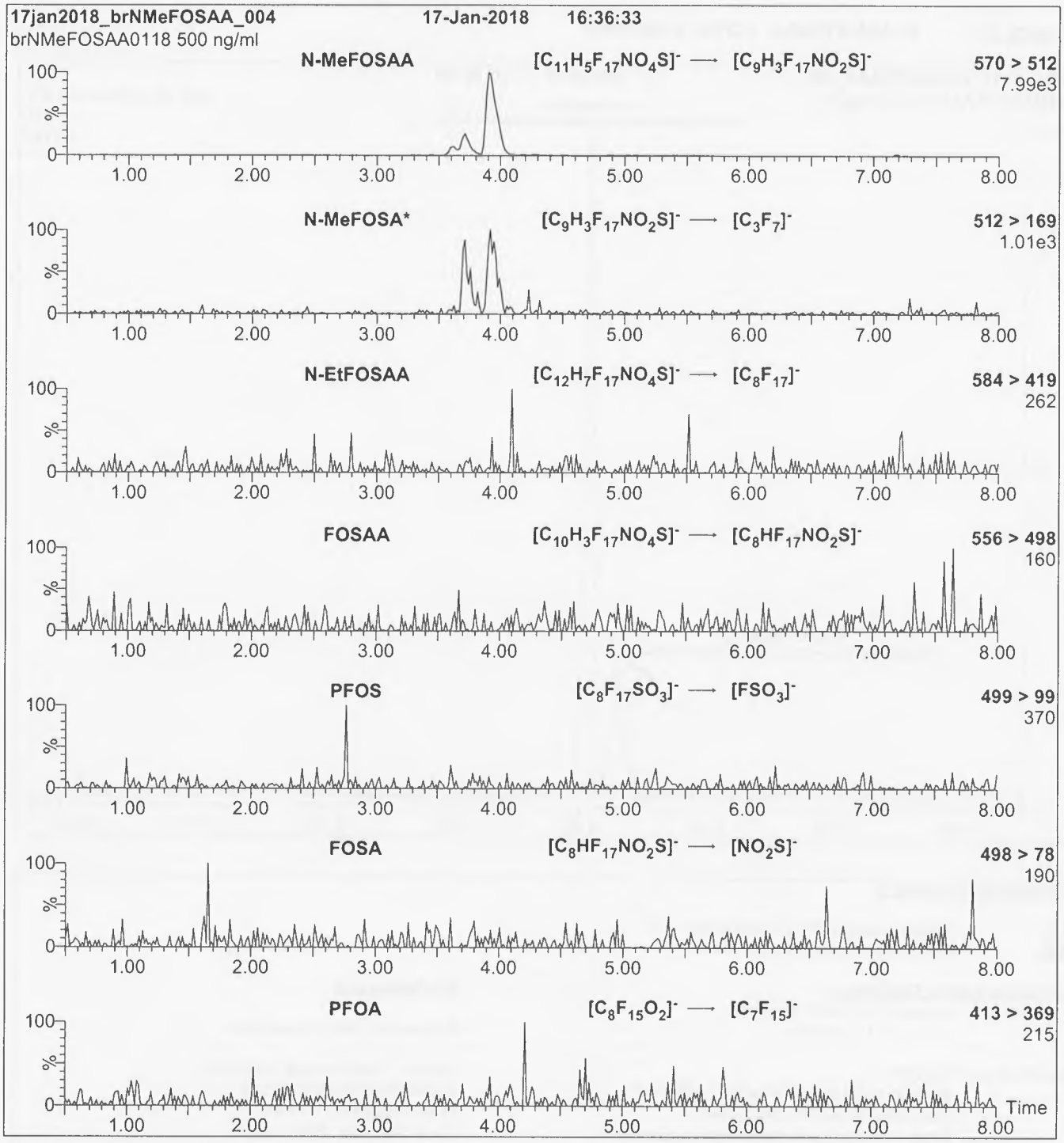
Flow: 300 µl/min

**MS Parameters**

Experiment: SIR (7 channels)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15-60
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

**Figure 3:** br-NMeFOSAA; LC/MS/MS Data (Selected MRM Transitions)




*Note: N-MeFOSA is formed by in-source fragmentation.

**Conditions for Figure 3:**

Injection: On-column

Mobile phase: Same as Figure 2

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 11-40 (variable)

BATTELLE

It can be done

BDO Id: 180618-04

# Reagent Receipt Report

Approved: ☐ Authorized ☐

| | | | |
|---|---|---|---|
| Name: | PFOA - Technical Mix | Received: | 6/18/2018 |
| Vendor: | Wellington Laboratories | Custodian: | Thorn, Jonathan |
| Catalogue No: | T-PFOA | Expires: | 2/16/2022 |
| Type: | Solution | Consumed: | |
| Lot No: | TPFOA0217 | Stored In: | Sample Preparation - C0103 |
| Quantity: | 1 ea mL % Moisture: 0 | | |
| Description: | PFOA - Technical Mix | | |

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|

Notes:

Approved by: _____ Approved on: _____

Authorized by: _____ Authorized on: _____

180618-04

# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

| | | | |
|---|---|---|---|
| **PRODUCT CODE:** | T-PFOA | **LOT NUMBER:** | TPFOA0217 |
| **COMPOUND:** | Technical Ammonium Perfluorooctanoate | | |
| **STRUCTURE:** | (see Table A) | **CAS #:** | 95328-99-7 (for linear ammonium perfluorooctanoate) |

| | |
|---|---|
| **MOLECULAR FORMULA:** | $C_8F_{15}O_2NH_4$ |
| **CONCENTRATION:** | 50 ± 2.5 µg/ml (gravimetric) |
| **CHEMICAL PURITY:** | Technical material |
| **SOLVENT(S):** | Methanol/Water (<1%) |
| **LAST TESTED:** (mm/dd/yyyy) | 02/16/2017 |
| **EXPIRY DATE:** (mm/dd/yyyy) | 02/16/2022 |
| **RECOMMENDED STORAGE:** | Store ampoule in a cool, dark place |

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Isomeric Components and Percent Composition
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)
Figure 4: LC/MS Elution Profile of the Perfluorooctanoic Acid Isomers

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- This technical mixture is >97% ammonium perfluorooctanoate (branched and linear isomers). The remaining 3% consists of common impurities such as the perfluoroheptanoic and perfluorohexanoic acids.
- It is recommended that this solution be used as a *qualitative or semi-quantitative standard only*.
- Contains 4 mole eq. of NaOH to prevent conversion of any carboxylic acids to their corresponding methyl esters.
- The molecular weight of perfluoro-n-octanoic acid is 414.07 g/mol.

***FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE***

**Certified By:** B.G. Chittim **Date:** 02/22/2017 (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*

## INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used for the identification and/or semi-quantitative determination of the specific chemical compound(s) it contains.

## HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

## CHARACTERIZATION / HOMOGENEITY:

This product is a technical mixture obtained from an industrial manufacturer. It has been characterized as to its content and components using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Testing of samples in solution has shown it to be homogeneous. As this product is a technical mixture, it should not be used to quantitate any of the listed components.

## UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value $y$ and the uncertainty of the independent parameters $x_1$, $x_2$,...$x_n$ on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

## TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST.

## EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

## LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

## QUALITY MANAGEMENT:

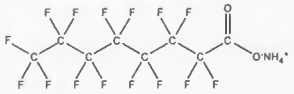
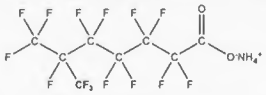
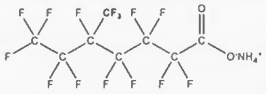
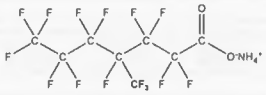
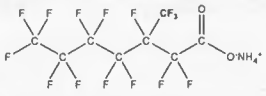
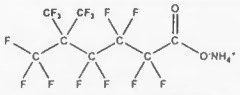
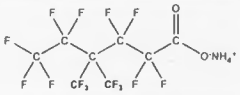
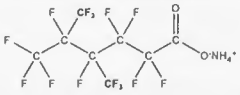
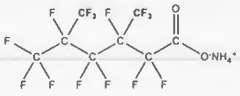
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

**For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com**

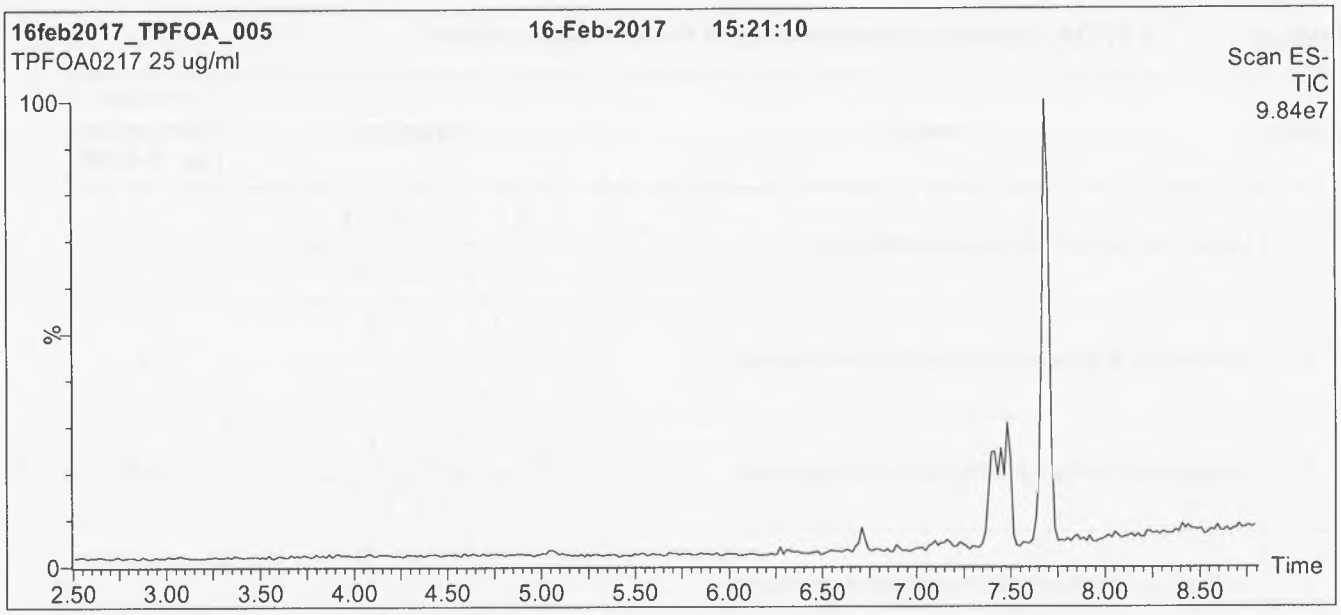
**Table A:** **T-PFOA; Isomeric Components and Percent Composition***

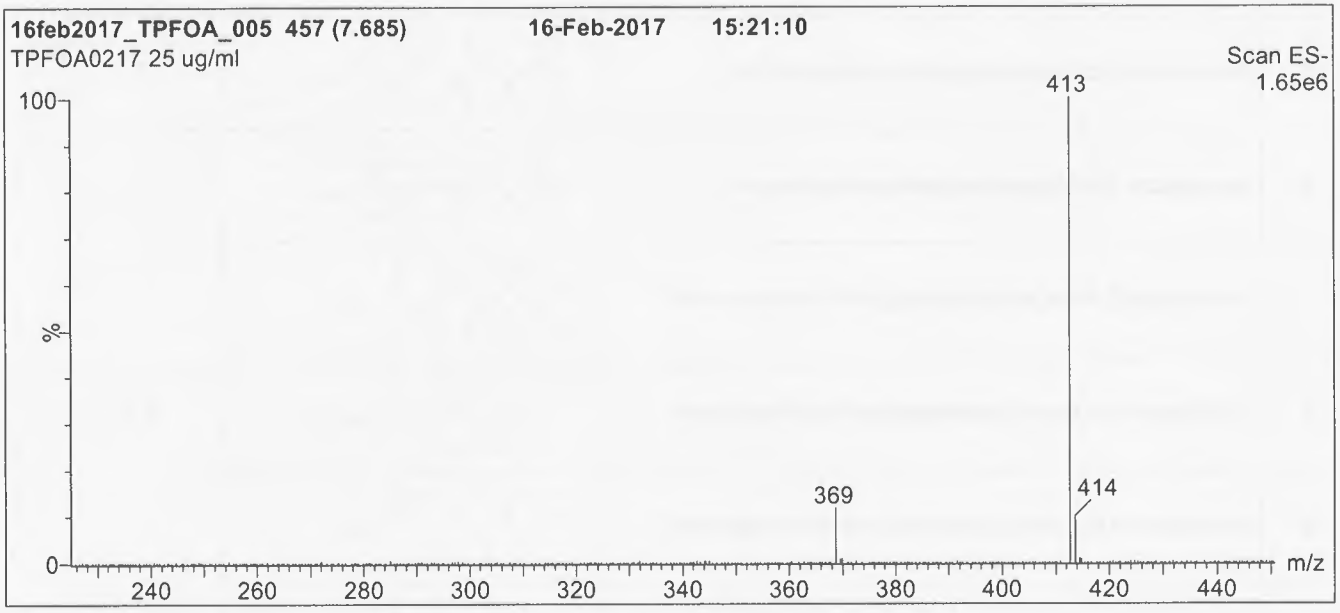
| Isomer | Name | Structure | Percent Composition by $^{19}$F-NMR |
|---|---|---|---|
| 1 | Linear ammonium perfluoro-n-octanoate |  | 79 |
| 2 | Ammonium 6-trifluoromethylperfluoroheptanoate |  | 9 |
| 3 | Ammonium 5-trifluoromethylperfluoroheptanoate |  | 4.5 |
| 4 | Ammonium 4-trifluoromethylperfluoroheptanoate |  | 4 |
| 5 | Ammonium 3-trifluoromethylperfluoroheptanoate |  | 3 |
| 6[a] | Ammonium 2-trifluoromethylperfluoroheptanoate | | 0.5 |
| 7 | Ammonium 5,5-bis(trifluoromethyl)perfluorohexanoate |  | |
| 8 | Ammonium 4,4-bis(trifluoromethyl)perfluorohexanoate |  | |
| 9[a] | Ammonium 4,5-bis(trifluoromethyl)perfluorohexanoate |  | |
| 10 | Ammonium 3,5-bis(trifluoromethyl)perfluorohexanoate |  | |

* Percent Composition was determined by $^{19}$F-NMR. The percentages displayed are of total ammonium perfluorooctanoate isomers only (isomers are labelled in Figure 4).

[a] Presence of this isomer could not be verified by LC/MS due to co-elution.

**Figure 1:** **T-PFOA; LC/MS Data (TIC and Mass Spectrum)**




**Conditions for Figure 1:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions:**

Column: Kinetex PFP
2.6 µm, 4.6 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 50% organic over 5 min. Ramp to
90% organic over 5 min and hold for 1.5 min.
Return to initial conditions over 0.5 min.
Time: 13 min

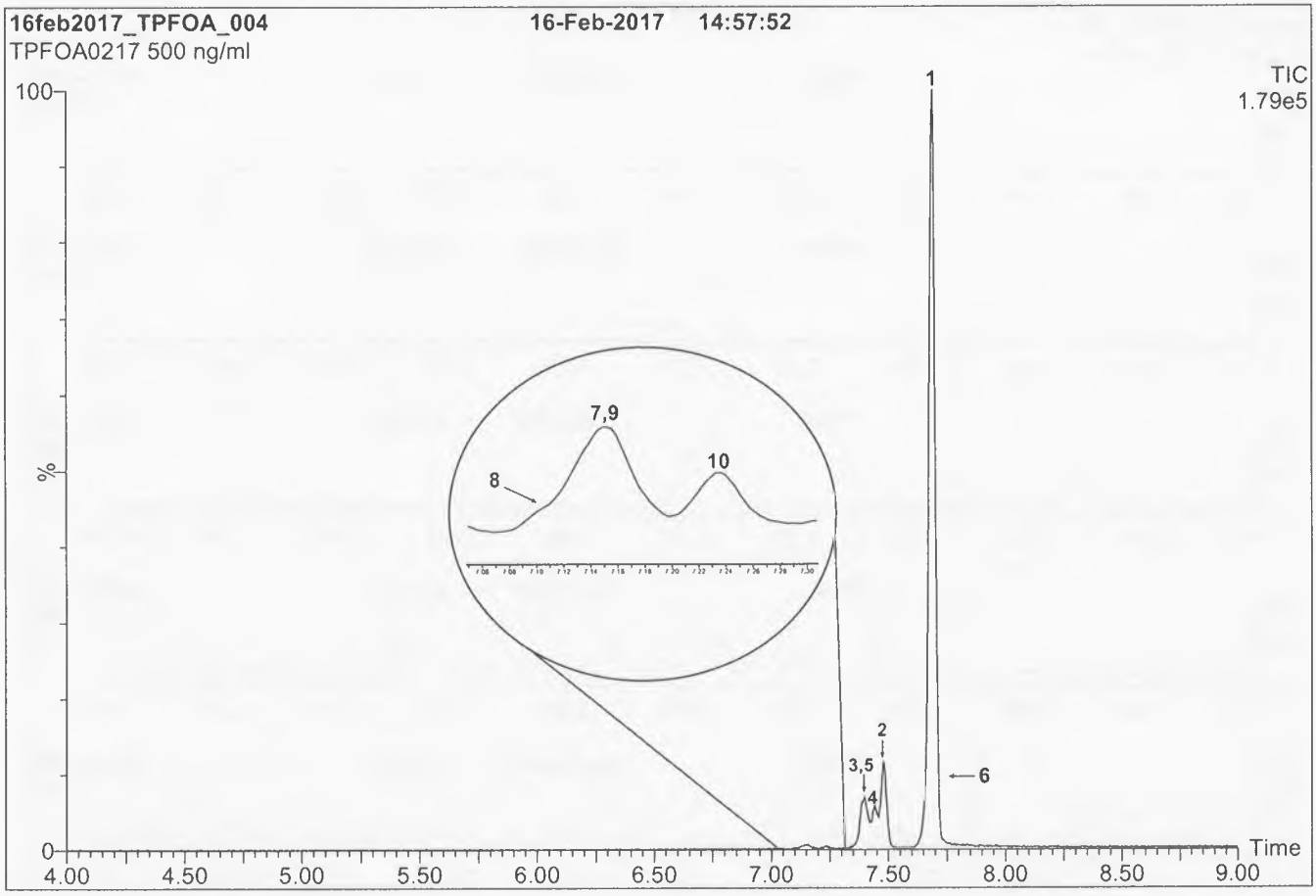
Flow: 1.0 ml/min

**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** **T-PFOA; LC/MS Data (SIR)**




**Conditions for Figure 2:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions:**

Column: Kinetex PFP
2.6 µm, 4.6 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 50% organic over 5 min. Ramp to
90% organic over 5 min and hold for 1.5 min.
Return to initial conditions over 0.5 min.
Time: 13 min

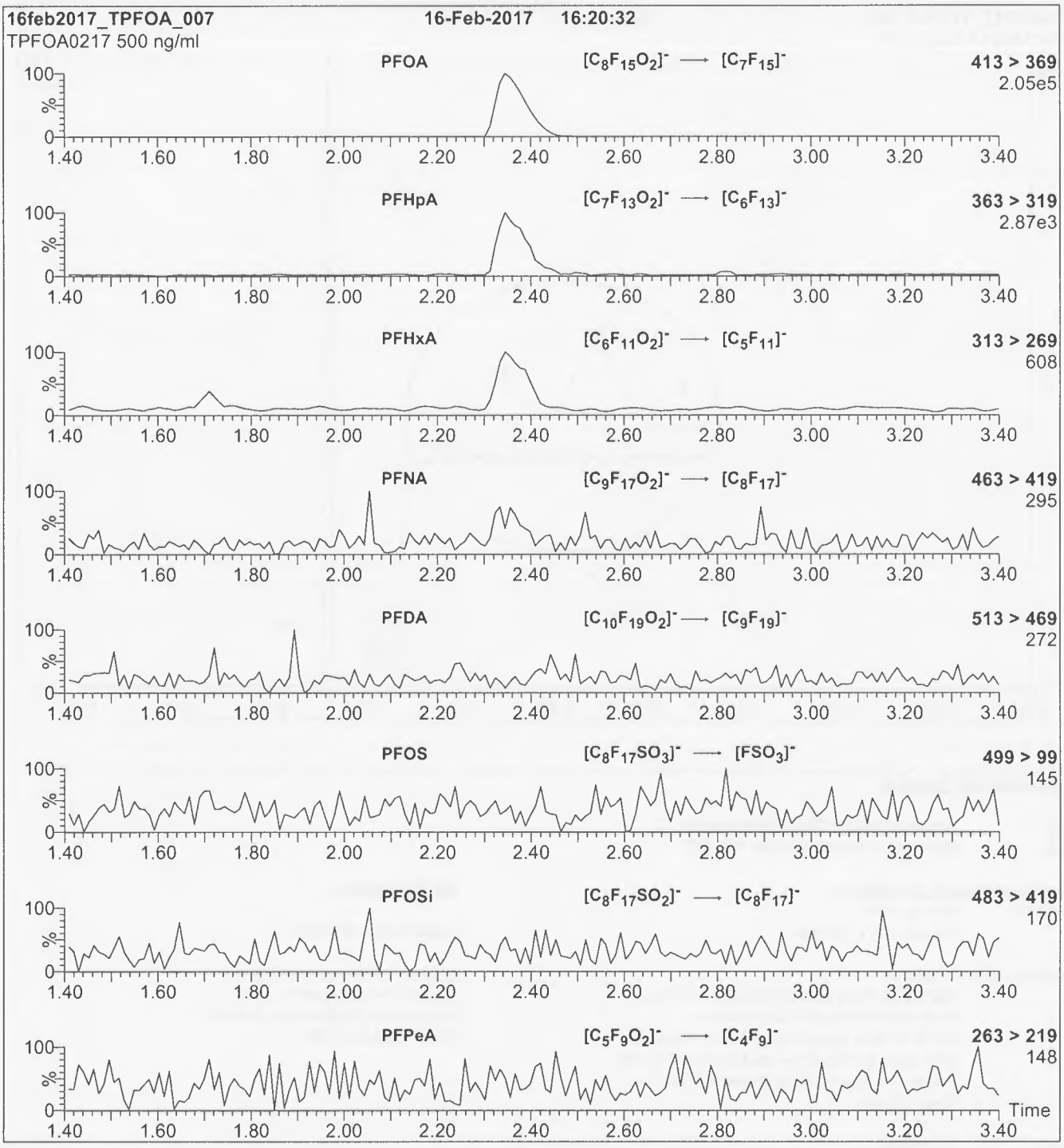
Flow: 1.0 ml/min

**MS Parameters:**

Experiment: SIR ($ES^-$)

Source conditions: see Figure 1
Source Temperature = 110 °C
Desolvation Temperature = 325 °C
Cone Voltage = 15V

**Figure 3:** **T-PFOA; LC/MS/MS Data (Selected MRM Transitions)**




**Conditions for Figure 3:**

Injection: Direct loop injection
10 µl (500 ng/ml T-PFOA)

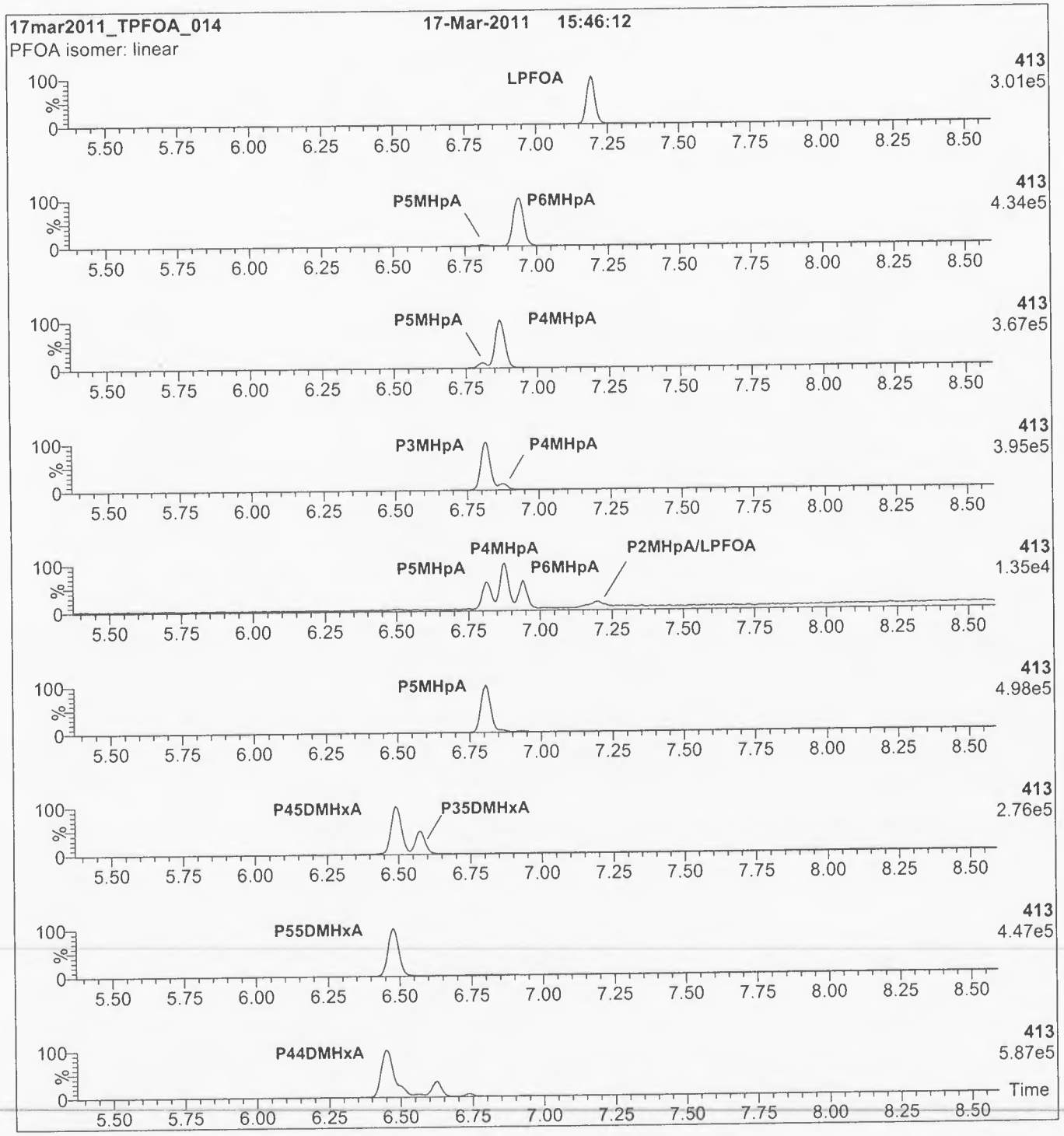
Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = variable (9-40)

**Figure 4:** **T-PFOA; LC/MS Elution Profile of the Perfluorooctanoic Acid Isomers**




**Conditions for Figure 4:**

Same as Figure 2.

BATTELLE

It can be done

BDO Id: 180618-06

# Reagent Receipt Report

Approved: ☐ Authorized ☐

| | | | |
|---|---|---|---|
| Name: | Branched PFHxS Standard (50 µg/m | Received: | 6/18/2018 |
| Vendor: | Wellington Laboratories | Custodian: | Thorn, Jonathan |
| Catalogue No: | br-PFHxSK | Expires: | 1/4/2022 |
| Type: | Solution | Consumed: | |
| Lot No: | brPFHxSK0117 | Stored In: | Sample Preparation - C0103 |
| Quantity: | 1 ea mL % Moisture: 0 | | |
| Description: | Branched PFHxS Standard (50 µg/mL) | | |

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|

Notes:

Approved by: _____ Approved on: _____

Authorized by: _____ Authorized on: _____

180618-06

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

# br-PFHxSK

**Potassium Perfluorohexanesulfonate Solution/Mixture of Linear and Branched Isomers**

| | |
|---|---|
| **PRODUCT CODE:** | br-PFHxSK |
| **LOT NUMBER:** | brPFHxSK0117 |
| **CONCENTRATION:** | 50.0 ± 2.5 µg/ml (total potassium salt) |
| | 45.5 ± 2.3 µg/ml (total PFHxS anion) |
| **SOLVENT(S):** | Methanol |
| **DATE PREPARED:** (mm/dd/yyyy) | 01/03/2017 |
| **LAST TESTED:** (mm/dd/yyyy) | 01/04/2017 |
| **EXPIRY DATE:** (mm/dd/yyyy) | 01/04/2022 |
| **RECOMMENDED STORAGE:** | Store ampoule in a cool, dark place |

## DESCRIPTION:

The chemical purity has been determined to be ≥98% perfluorohexanesulfonate linear and branched isomers. The full name, structure and percent composition for each of the identified isomeric components are given in Table A.

## DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by $^{19}$F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

## ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.5% of perfluoro-1-pentanesulfonate and ~ 0.2% of perfluoro-1-octanesulfonate.
- CAS#: 3871-99-6 (for linear isomer; potassium salt).

***FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE***

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

## INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

## HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

## SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

## HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

## UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value $y$ and the uncertainty of the independent parameters $x_1$, $x_2$,...$x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

## TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

## EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

## LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

## QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

**For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com**

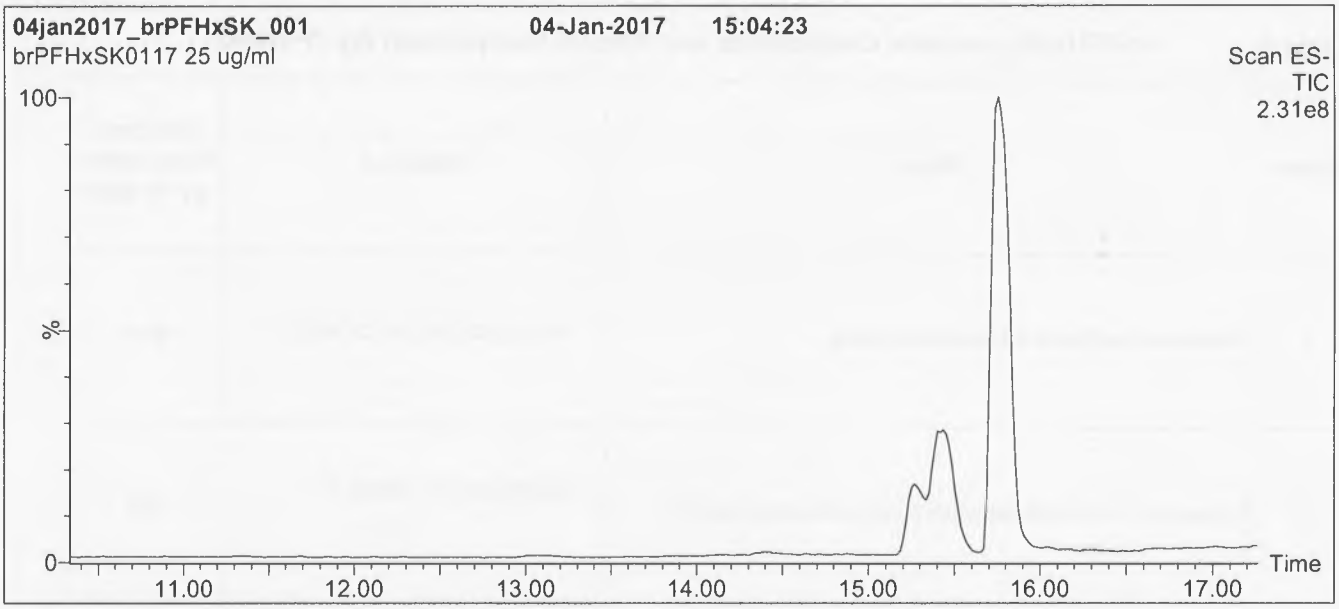
**Table A:** **br-PFHxSK; Isomeric Components and Percent Composition (by $^{19}$F-NMR)***

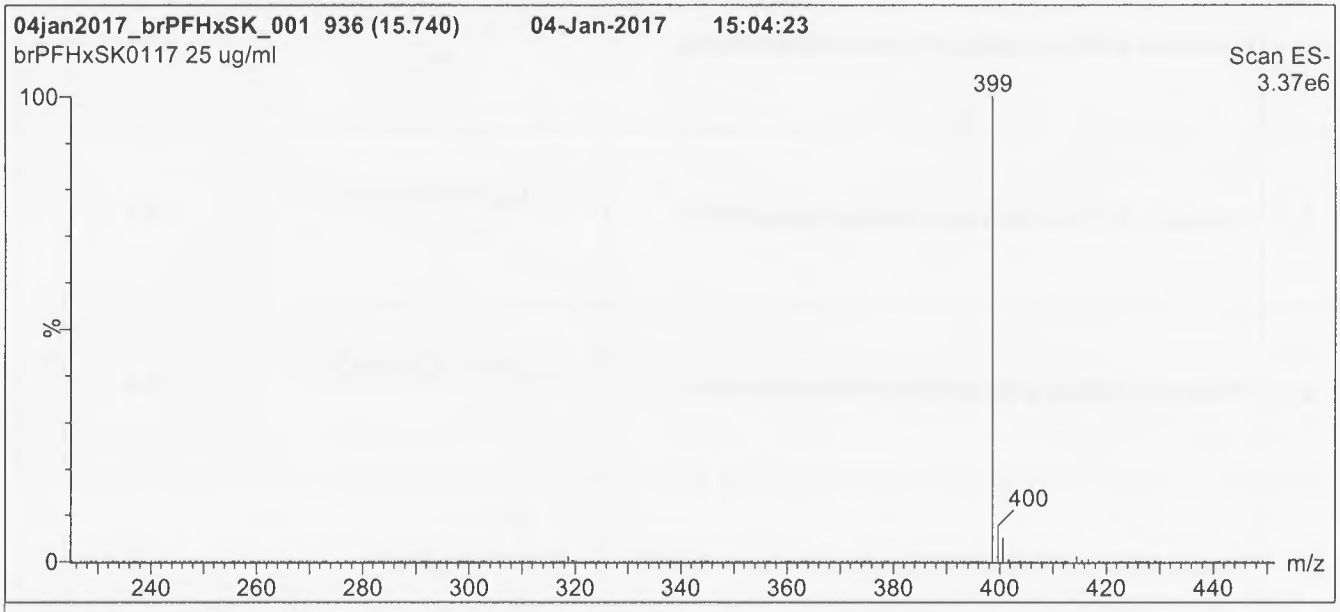
| Isomer | Name | Structure | Percent Composition by $^{19}$F-NMR |
|---|---|---|---|
| 1 | Potassium perfluoro-1-hexanesulfonate | $CF_3CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$ | 81.1 |
| 2 | Potassium 1-trifluoromethylperfluoropentanesulfonate** | $CF_3CF_2CF_2CF_2CF(CF_3)SO_3^-K^+$ | 2.9 |
| 3 | Potassium 2-trifluoromethylperfluoropentanesulfonate | $CF_3CF_2CF_2CF(CF_3)CF_2SO_3^-K^+$ | 1.4 |
| 4 | Potassium 3-trifluoromethylperfluoropentanesulfonate | $CF_3CF_2CF(CF_3)CF_2CF_2SO_3^-K^+$ | 5.0 |
| 5 | Potassium 4-trifluoromethylperfluoropentanesulfonate | $CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$ | 8.9 |
| 6 | Potassium 3,3-di(trifluoromethyl)perfluorobutanesulfonate | $CF_3C(CF_3)_2CF_2CF_2SO_3^-K^+$ | 0.2 |
| 7 | Other Unidentified Isomers | | 0.5 |

* Percent of total perfluorohexanesulfonate isomers only.
** Systematic Name: Potassium perfluorohexane-2-sulfonate.

**Certified By:** B.G. Chittim **Date:** 01/20/2017 (mm/dd/yyyy)

**Figure 1:** **br-PFHxSK; LC/MS Data (TIC and Mass Spectrum)**




**Conditions for Figure 1:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 20% (80:20 MeOH:ACN) / 80% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 50% organic over 14 min. Ramp to 90% organic over 3 min and hold for 1.5 min before returning to initial conditions in 0.5 min.
Time: 20 min

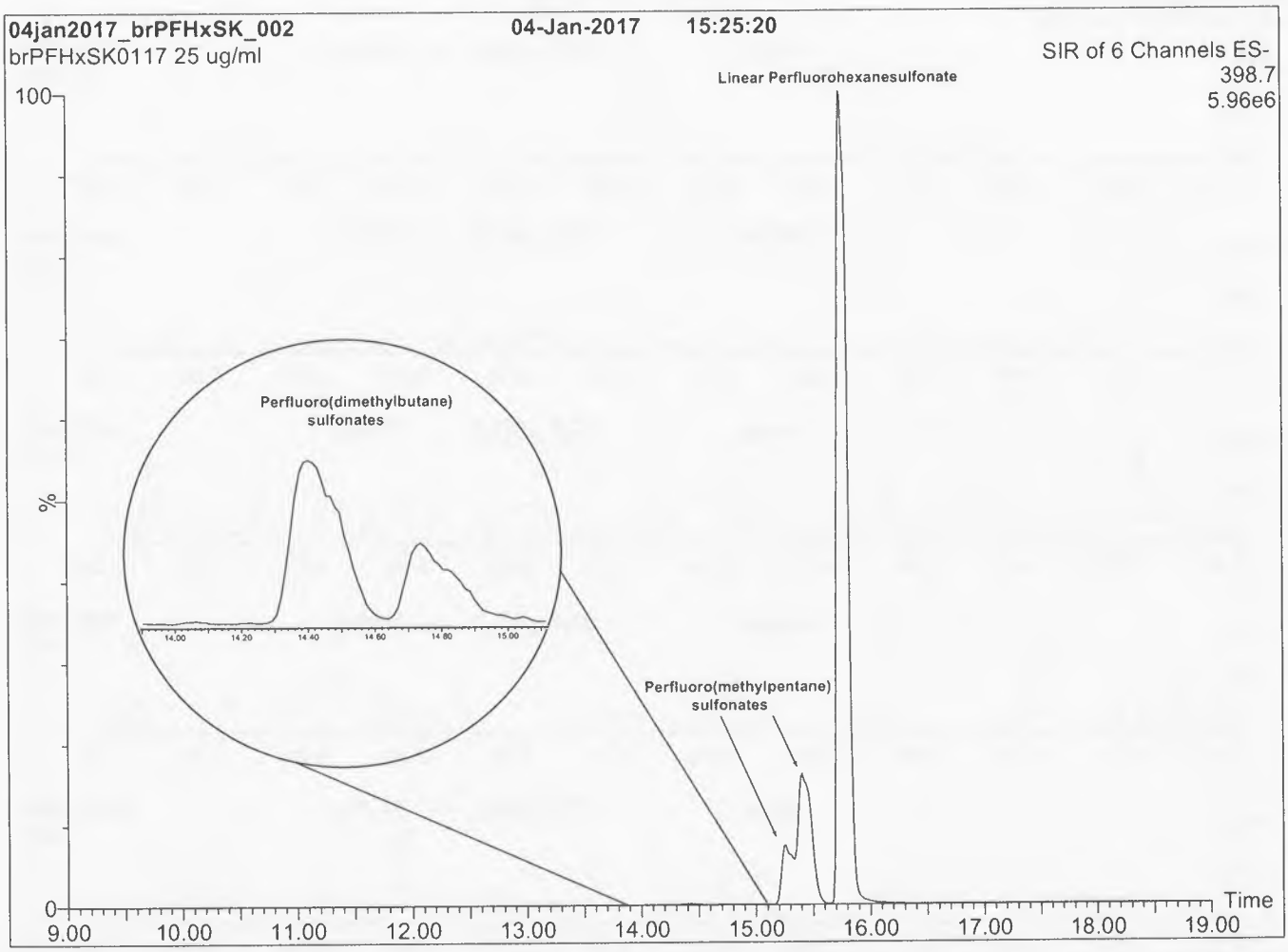
Flow: 300 µl/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 50.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** **br-PFHxSK; LC/MS Data (SIR)**




**Conditions for Figure 2:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 20% (80:20 MeOH:ACN) / 80% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 50% organic over 14 min. Ramp to
90% organic over 3 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 20 min

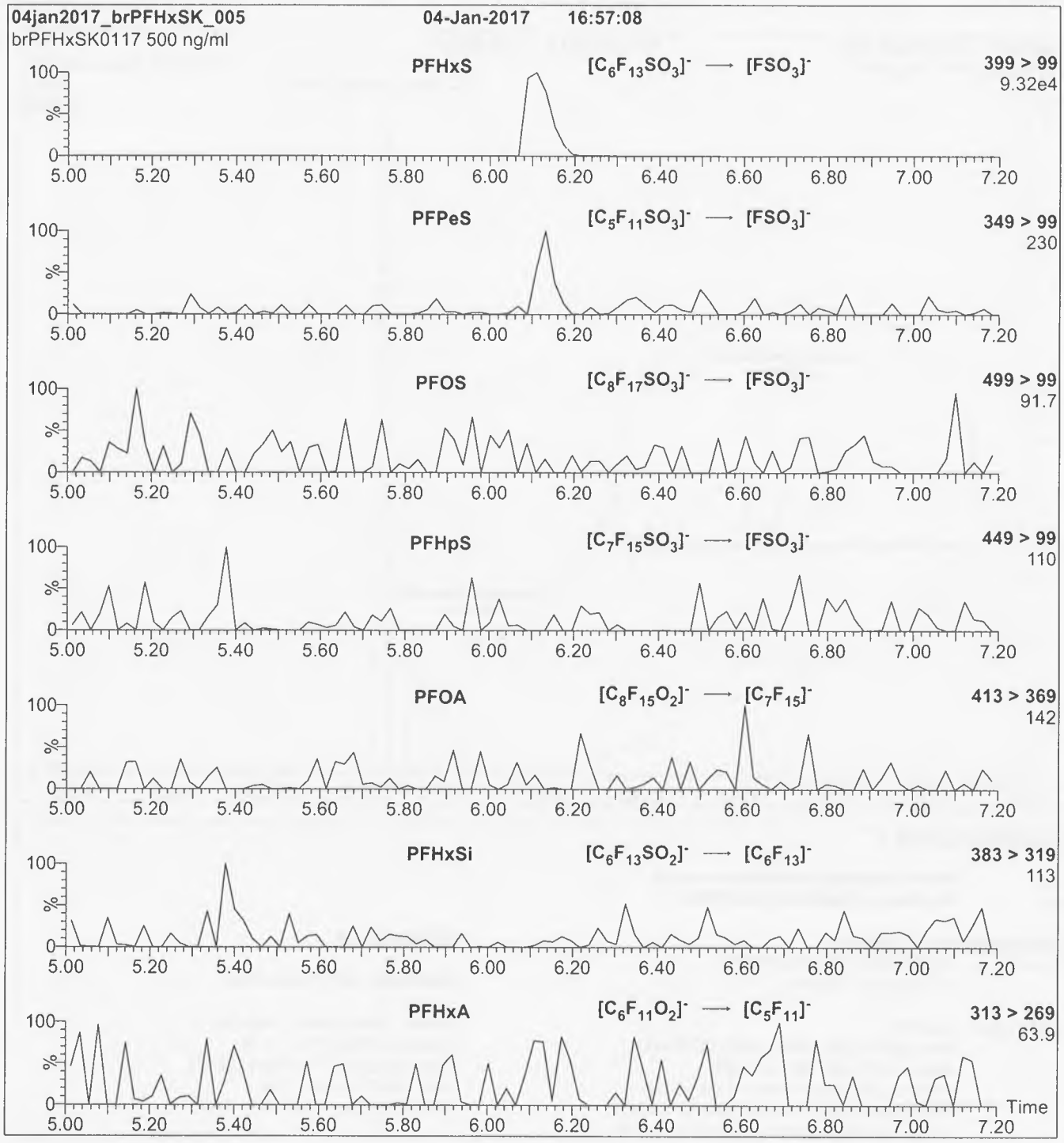
Flow: 300 µl/min

**MS Parameters**

Experiment: SIR (6 channels)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = variable (15-62)
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

**Figure 3:** **br-PFHxSK; LC/MS/MS Data (Selected MRM Transitions)**




**Conditions for Figure 3:**

Injection: Direct loop injection
10 µl (500 ng/ml br-PFHxSK)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 30

BATTELLE

It can be done

BDO Id: 180618-07

# Reagent Receipt Report

Approved: ☐ Authorized ☐

| | | | |
|---|---|---|---|
| **Name:** | Branched PFOS Standard (50 µg/mL | **Received:** | 6/18/2018 |
| **Vendor:** | Wellington Laboratories | **Custodian:** | Thorn, Jonathan |
| **Catalogue No:** | br-PFOSK | **Expires:** | 1/12/2022 |
| **Type:** | Solution | **Consumed:** | |
| **Lot No:** | brPFOSK0117 | **Stored In:** | Sample Preparation - C0103 |
| **Quantity:** | 1 ea mL **% Moisture:** 0 | | |
| **Description:** | Branched PFOS Standard (50 µg/mL) | | |

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|

**Notes:**

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

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

180618-07

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

# br-PFOSK

**Potassium Perfluorooctanesulfonate Solution/Mixture of Linear and Branched Isomers**

| | |
|---|---|
| **PRODUCT CODE:** | br-PFOSK |
| **LOT NUMBER:** | brPFOSK0117 |
| **CONCENTRATION:** | 50 ± 2.5 µg/ml (total potassium salt) |
| | 46.4 ± 2.3 µg/ml (total PFOS anion) |
| **SOLVENT(S):** | Methanol |
| **DATE PREPARED:** (mm/dd/yyyy) | 01/09/2017 |
| **LAST TESTED:** (mm/dd/yyyy) | 01/12/2017 |
| **EXPIRY DATE:** (mm/dd/yyyy) | 01/12/2022 |
| **RECOMMENDED STORAGE:** | Store ampoule in a cool, dark place |

## DESCRIPTION:

The chemical purity has been determined to be ≥98% perfluorooctanesulfonate linear and branched isomers. The full name, structure and percent composition for each of the isomeric components are given in Table A.

## DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by $^{19}$F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

## ADDITIONAL INFORMATION:

- See page 2 for further details.
- A 5-point calibration curve was generated using linear PFOS (potassium salt) and mass-labelled PFOS as an internal standard to enable quantitation of br-PFOSK using isotopic dilution.
- CAS#: 2795-39-3 (for linear isomer; potassium salt).

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## INTENDED USE:

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## HAZARDS:

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## SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

## HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

## UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value $y$ and the uncertainty of the independent parameters $x_1$, $x_2$,...$x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

## TRACEABILITY:

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## EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

## LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

## QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

**For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com**

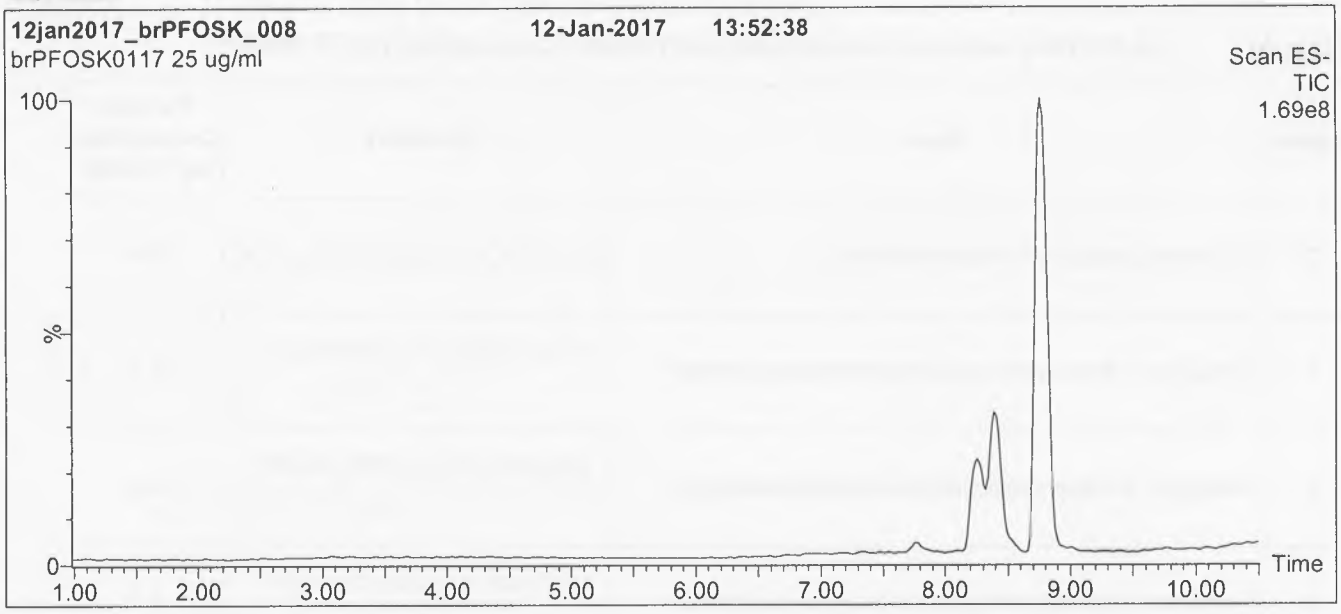
**Table A:** **br-PFOSK; Isomeric Components and Percent Composition (by $^{19}$F-NMR)***

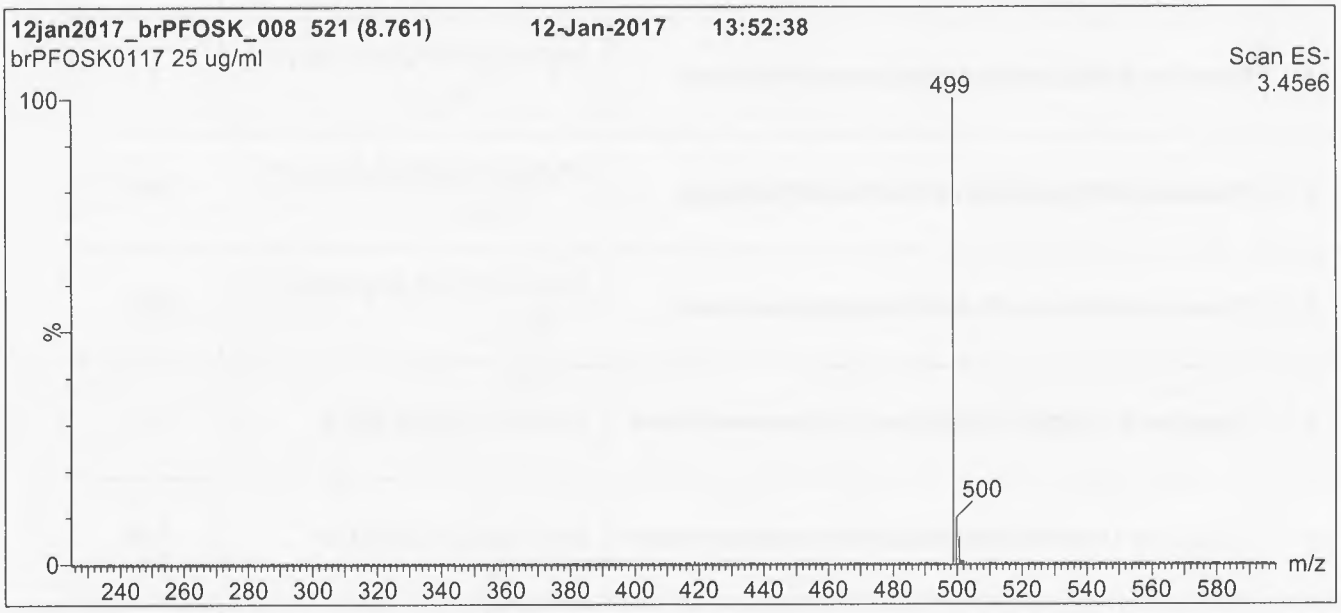
| Isomer | Name | Structure | Percent Composition by $^{19}$F-NMR |
|---|---|---|---|
| 1 | Potassium perfluoro-1-octanesulfonate | $CF_3CF_2CF_2CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$ | 78.8 |
| 2 | Potassium 1-trifluoromethylperfluoroheptanesulfonate** | $CF_3CF_2CF_2CF_2CF_2CF_2CF(CF_3)SO_3^-K^+$ | 1.2 |
| 3 | Potassium 2-trifluoromethylperfluoroheptanesulfonate | $CF_3CF_2CF_2CF_2CF_2CF(CF_3)CF_2SO_3^-K^+$ | 0.6 |
| 4 | Potassium 3-trifluoromethylperfluoroheptanesulfonate | $CF_3CF_2CF_2CF_2CF(CF_3)CF_2CF_2SO_3^-K^+$ | 1.9 |
| 5 | Potassium 4-trifluoromethylperfluoroheptanesulfonate | $CF_3CF_2CF_2CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$ | 2.2 |
| 6 | Potassium 5-trifluoromethylperfluoroheptanesulfonate | $CF_3CF_2CF(CF_3)CF_2CF_2CF_2CF_2SO_3^-K^+$ | 4.5 |
| 7 | Potassium 6-trifluoromethylperfluoroheptanesulfonate | $CF_3CF(CF_3)CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$ | 10.0 |
| 8 | Potassium 5,5-di(trifluoromethyl)perfluorohexanesulfonate | $CF_3C(CF_3)CF_2CF_2CF_2CF_2SO_3^-K^+$ | 0.2 |
| 9 | Potassium 4,4-di(trifluoromethyl)perfluorohexanesulfonate | $CF_3CF_2C(CF_3)CF_2CF_2CF_2SO_3^-K^+$ | 0.03 |
| 10 | Potassium 4,5-di(trifluoromethyl)perfluorohexanesulfonate | $CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$ | 0.4 |
| 11 | Potassium 3,5-di(trifluoromethyl)perfluorohexanesulfonate | $CF_3CF(CF_3)CF_2CF(CF_3)CF_2SO_3^-K^+$ | 0.07 |

* Percent of total perfluorooctanesulfonate isomers only. Isomers are labelled in Figure 2.
** Systematic Name: Potassium perfluorooctane-2-sulfonate.

**Certified By:** B.G. Chittim **Date:** 01/20/2017 (mm/dd/yyyy)

**Figure 1:** **br-PFOSK; LC/MS Data (TIC and Mass Spectrum)**




**Conditions for Figure 1:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% (80:20 MeOH:ACN) / 55% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 90% organic over 12 min and hold for 2 min.
Return to initial conditions over 0.5 min.
Time: 16 min

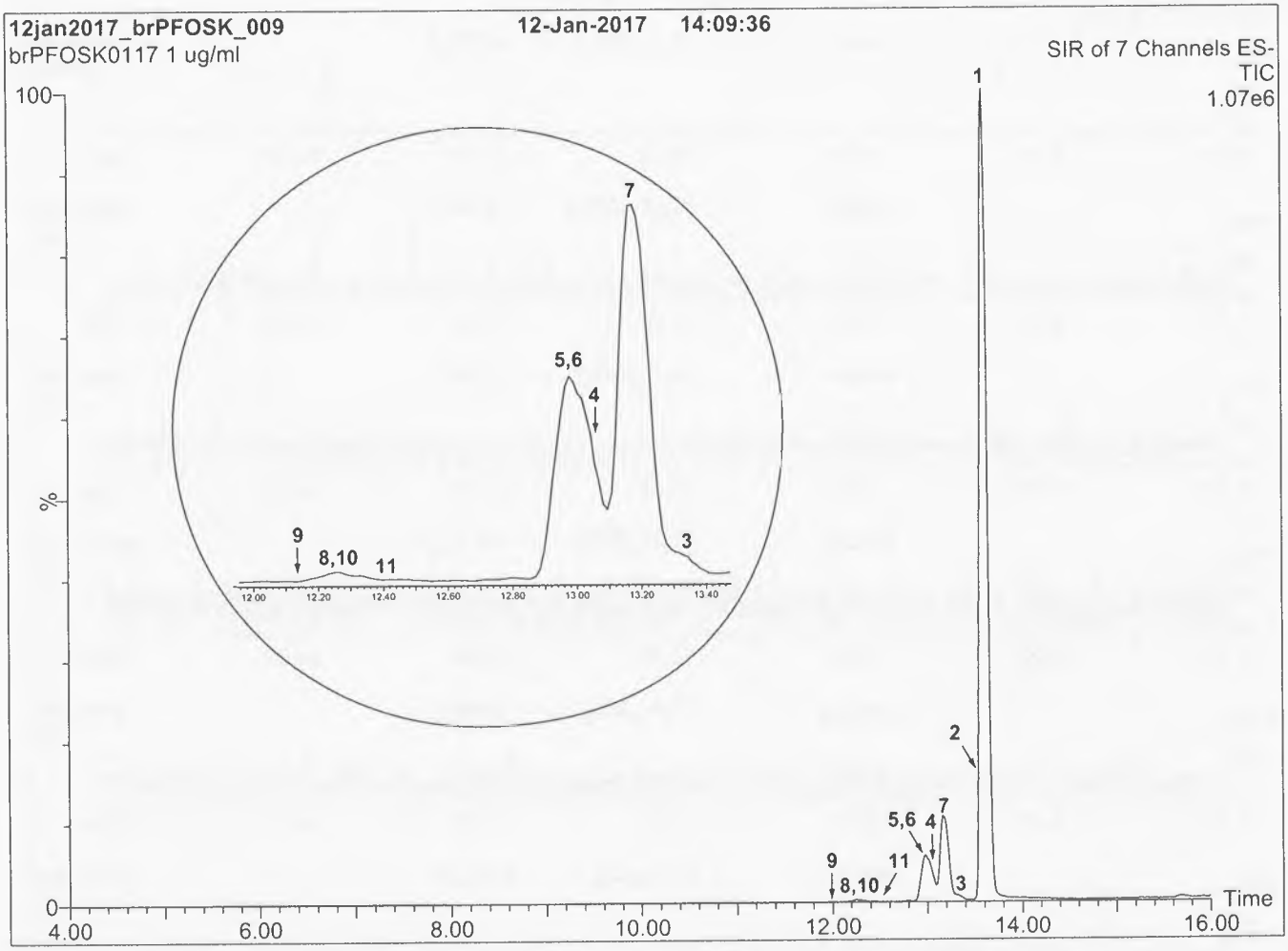
Flow: 300 µl/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** **br-PFOSK; LC/MS Data (SIR)**




**Conditions for Figure 2:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

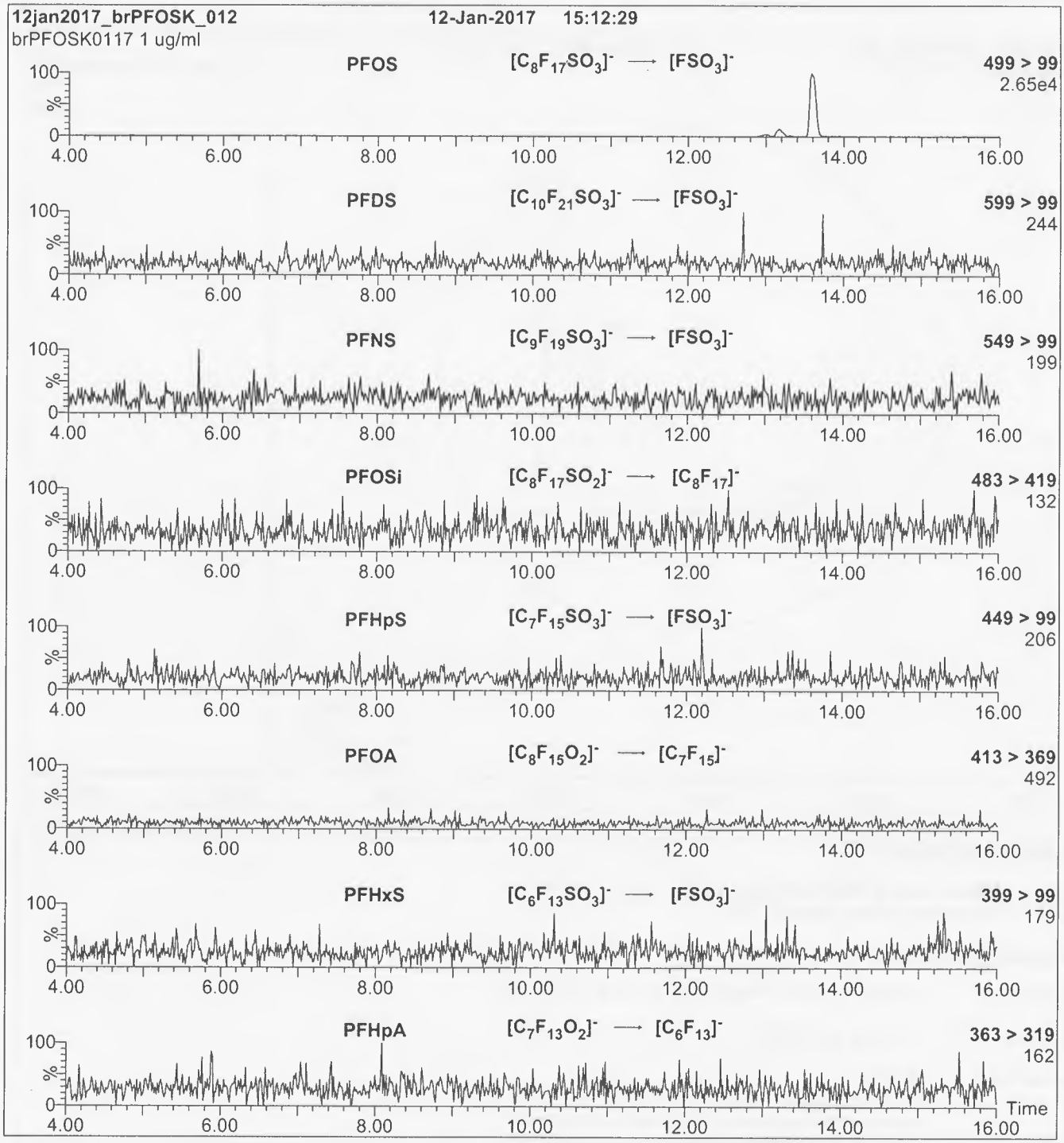
**Chromatographic Conditions:**

| | |
|---|---|
| Column: | Acquity UPLC BEH Shield $RP_{18}$ (1.7 µm, 2.1 x 100 mm) |
| Injection: | 1.0 µg/ml of br-PFOSK |
| Mobile Phase: | Gradient<br>45% (80:20 MeOH:ACN) / 55% $H_2O$ (both with 10 mM $NH_4OAc$ buffer)<br>Ramp to 90% organic over 15 min and hold for 3 min.<br>Return to initial conditions over 1 min.<br>Time: 20 min |
| Flow: | 300 µl/min |

**MS Conditions:**

SIR ($ES^-$)
Source = 110 °C
Desolvation = 325 °C
Cone Voltage = 60V

**Figure 3:** **br-PFOSK; LC/MS/MS Data (Selected MRM Transitions)**




**Conditions for Figure 3:**

Injection: On-column

Mobile phase: Same as Figure 2

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 11-50 (variable)

180705-02

CERTIFIED WEIGHT REPORT

**Part Number:** 99207
**Lot Number:** 061918
**Description:** PFOA - DOD
24 components
**Expiration Date:** 061923
**Recommended Storage:** Freezer (0 °C)
**Nominal Concentration (µg/mL):** 1.0
**NIST Test ID#:** 2684186

| Solvent(s): | Lot# | |
|---|---|---|
| Methanol (1 mM KOH) | 061918 | (98%) |
| 2-Propanol | 23214 | (2%) |

5E-05 Balance Uncertainty
0.007 Flask Uncertainty

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

**Note: All assigned values are anion concentrations.**

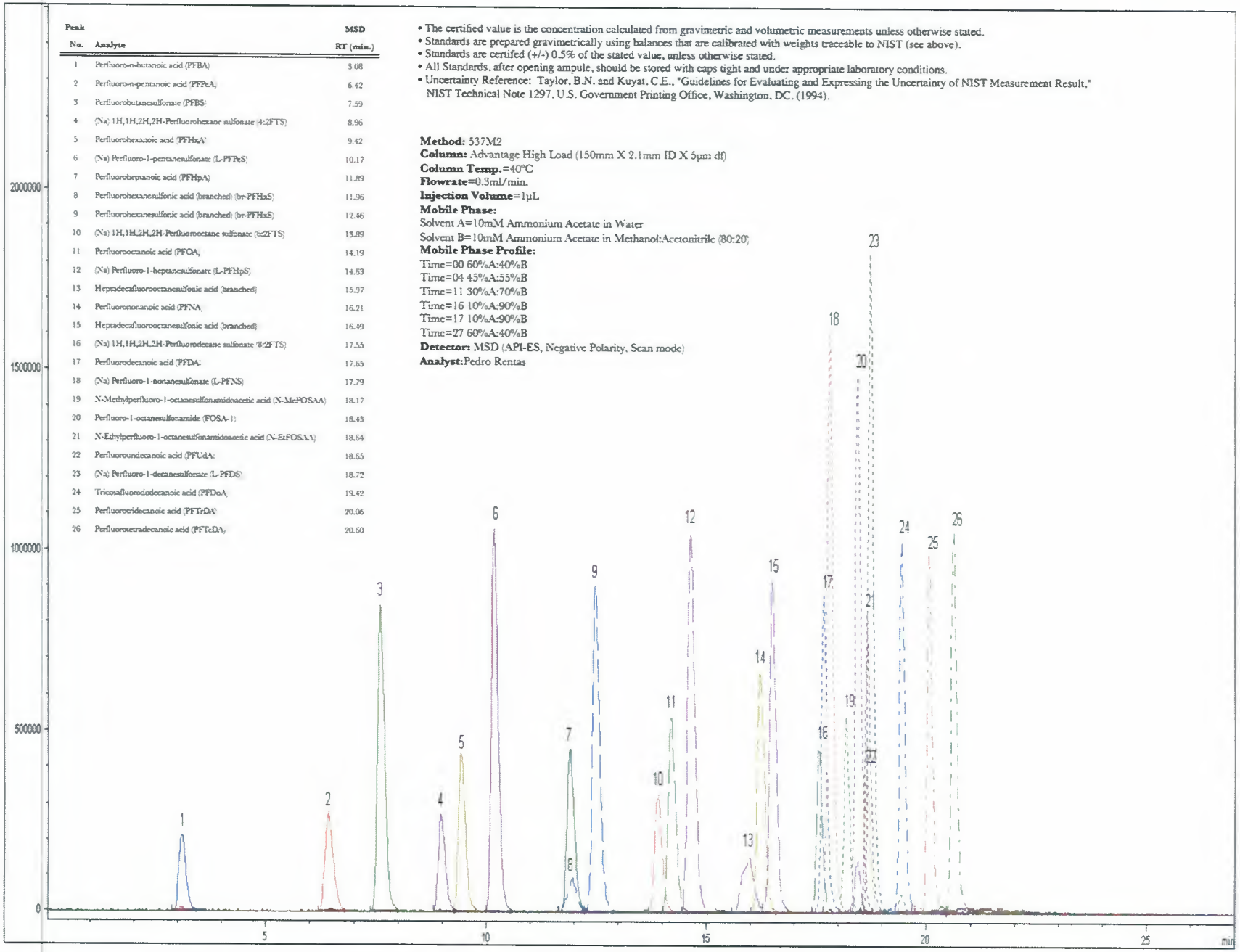
| | | |
|---|---|---|
| Formulated By: | Mario Luis | 061918 DATE |
| Reviewed By: | Pedro L. Rentas | 061918 DATE |

| 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-butanoic acid (linear) | 99542 | 110317 | 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 | 110317 | 0.02 | 1.00 | 0.004 | 50.7 | 1.01 | 0.01 | 2706-90-3 | N/A | N/A |
| 3. Perfluorohexanoic acid | 99199 | 030617 | 0.02 | 1.00 | 0.004 | 50.3 | 1.01 | 0.01 | 307-24-4 | N/A | N/A |
| 4. Perfluoroheptanoic acid | 99197 | 030517 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 375-85-9 | N/A | N/A |
| 5. Perfluorooctanoic acid | 99202 | 030617 | 0.02 | 1.00 | 0.004 | 50.2 | 1.00 | 0.01 | 335-67-1 | N/A | ipr-rat 189mg/kg |
| 6. Perfluorononanoic acid | 99200 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 375-95-1 | N/A | N/A |
| 7. Perfluorodecanoic acid | 99195 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 335-76-2 | N/A | orl-rat 57mg/kg |
| 8. Perfluoroundecanoic acid | 99205 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 2058-94-8 | N/A | N/A |
| 9. Tricosafluorododecanoic acid | 99196 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 307-55-1 | N/A | N/A |
| 10. Perfluorotridecanoic acid | 99204 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 72629-94-8 | N/A | N/A |
| 11. Perfluorotetradecanoic acid | 99203 | 030617 | 0.02 | 1.00 | 0.004 | 50.1 | 1.00 | 0.01 | 376-06-7 | N/A | N/A |
| 12. Perfluoro-1-octanesulfonamide | 3677 | FOSA0817I | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 754-91-6 | N/A | N/A |
| 13. N-Methylperfluoro-1-octanesulfonamidoacetic acid | 3667 | NMeFOSAA0118 | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 2355-31-9 | N/A | N/A |
| 14. N-Ethylperfluoro-1-octanesulfonamidoacetic acid | 3664 | NEtFOSAA0118 | 0.02 | 1.00 | 0.004 | 50.0 | 1.00 | 0.01 | 2991-50-6 | N/A | N/A |
| 15. Perfluorobutanesulfonic acid | 99194 | 031017 | 0.02 | 1.00 | 0.004 | 50.7 | 1.01 | 0.01 | 375-73-5 | N/A | N/A |
| 16. Perfluoro-1-pentanesulfonate | 99544 | 111017 | 0.02 | 0.98 | 0.004 | 51.3 | 1.00 | 0.01 | 630402-22-1 | N/A | N/A |
| 17. Perfluorohexanesulfonic acid (branched) | 99198 | 030617 | 0.02 | 1.00 | 0.004 | 50.6 | 1.01 | 0.01 | 3871-99-6 | N/A | N/A |
| 18. Perfluoro-1-heptanesulfonic acid | 3672 | LPFHpS0817 | 0.021 | 1.05 | 0.004 | 47.6 | 1.00 | 0.01 | 375-92-8 | N/A | N/A |
| 19. Heptadecafluorooctanesulfonic acid (branched) | 99201 | 030617 | 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 | LPFNS0917 | 0.021 | 1.05 | 0.004 | 48.0 | 1.01 | 0.01 | 98789-57-2 | N/A | N/A |
| 21. Perfluoro-1-decanesulfonic acid | 3671 | LPFDS0217 | 0.021 | 1.05 | 0.004 | 48.2 | 1.01 | 0.01 | 2806-15-7 | N/A | N/A |
| 22. 1H,1H,2H,2H-Perfluorohexane sulfonic acid | 3955 | 42FTS1216 | 0.0214 | 1.07 | 0.004 | 46.7 | 1.00 | 0.01 | 00-00-0 | N/A | N/A |
| 23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid | 3661 | 62FTS0616 | 0.021 | 1.05 | 0.004 | 47.4 | 1.00 | 0.01 | 27619-97-2 | N/A | N/A |
| 24. 1H,1H,2H,2H-Perfluorodecane sulfonic acid | 3662 | 82FTS1216 | 0.021 | 1.05 | 0.004 | 47.9 | 1.01 | 0.01 | 39108-34-4 | N/A | N/A |

| Peak No. | Analyte | MSD RT (min.) |
|---|---|---|
| 1 | Perfluoro-n-butanoic acid (PFBA) | 5.08 |
| 2 | Perfluoro-n-pentanoic acid (PFPeA) | 6.42 |
| 3 | Perfluorobutanesulfonate (PFBS) | 7.59 |
| 4 | (Na) 1H,1H,2H,2H-Perfluorohexane sulfonate (4:2FTS) | 8.96 |
| 5 | Perfluorohexanoic acid (PFHxA) | 9.42 |
| 6 | (Na) Perfluoro-1-pentanesulfonate (L-PFPeS) | 10.17 |
| 7 | Perfluoroheptanoic acid (PFHpA) | 11.89 |
| 8 | Perfluorohexanesulfonic acid (branched) (br-PFHxS) | 11.96 |
| 9 | Perfluorohexanesulfonic acid (branched) (br-PFHxS) | 12.46 |
| 10 | (Na) 1H,1H,2H,2H-Perfluorooctane sulfonate (6:2FTS) | 13.89 |
| 11 | Perfluorooctanoic acid (PFOA) | 14.19 |
| 12 | (Na) Perfluoro-1-heptanesulfonate (L-PFHpS) | 14.63 |
| 13 | Heptadecafluorooctanesulfonic acid (branched) | 15.97 |
| 14 | Perfluorononanoic acid (PFNA) | 16.21 |
| 15 | Heptadecafluorooctanesulfonic acid (branched) | 16.49 |
| 16 | (Na) 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2FTS) | 17.55 |
| 17 | Perfluorodecanoic acid (PFDA) | 17.65 |
| 18 | (Na) Perfluoro-1-nonanesulfonate (L-PFNS) | 17.79 |
| 19 | N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | 18.17 |
| 20 | Perfluoro-1-octanesulfonamide (FOSA-1) | 18.43 |
| 21 | N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | 18.64 |
| 22 | Perfluoroundecanoic acid (PFUdA) | 18.65 |
| 23 | (Na) Perfluoro-1-decanesulfonate (L-PFDS) | 18.72 |
| 24 | Tricosafluorododecanoic acid (PFDoA) | 19.42 |
| 25 | Perfluorotridecanoic acid (PFTrDA) | 20.06 |
| 26 | Perfluorotetradecanoic acid (PFTeDA) | 20.60 |

- 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).

**Method:** 537M2
**Column:** Advantage High Load (150mm X 2.1mm ID X 5µm df)
**Column Temp.**=40°C
**Flowrate**=0.3mL/min.
**Injection Volume**=1µL
**Mobile Phase:**
Solvent A=10mM Ammonium Acetate in Water
Solvent B=10mM Ammonium Acetate in Methanol:Acetonitrile (80:20)
**Mobile Phase Profile:**
Time=00 60%A:40%B
Time=04 45%A:55%B
Time=11 30%A:70%B
Time=16 10%A:90%B
Time=17 10%A:90%B
Time=27 60%A:40%B
**Detector:** MSD (API-ES, Negative Polarity, Scan mode)
**Analyst:**Pedro Rentas



BATTELLE

It can be done

BDO Id: 180726-04

# Reagent Receipt Report

Approved: ☑ Authorized ☐

| | | | |
|---|---|---|---|
| **Name:** | Mass-labelled PFAS injection standar | **Received:** | 7/26/2018 |
| **Vendor:** | Wellington Laboratories | **Custodian:** | Thorn, Jonathan |
| **Catalogue No:** | MPFAC-C-IS | **Expires:** | 5/2/2022 |
| **Type:** | Solution | **Consumed:** | |
| **Lot No:** | MPFACCIS0516 | **Stored In:** | LC Laboratory - R0107 |
| **Quantity:** | 2 ea 1.2 mL **% Moisture:** 0 | | |
| **Description:** | Mass-labelled PFAS injection standards | | |

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|
| 13C2-PFDA | BDO-2110 | 2.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C2-PFOA | BDO-2107 | 2.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C3-PFBA | BDO-2231 | 2.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C4-PFOS | BDO-2121 | 1.9140 | 100.00 | -- | -- | ☐ | | | |

**Total Analytes:** 4

**Notes:**

| | | | |
|---|---|---|---|
| **Approved by:** | Lizotte Jr, Robert | **Approved on:** | 7/27/2018 11:10:00 AM |
| **Authorized by:** | | **Authorized on:** | |

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

# MPFAC-C-IS

## Mass-Labelled Perfluorinated Compound Injection Standards Solution

| | |
|---|---|
| **PRODUCT CODE:** | MPFAC-C-IS |
| **LOT NUMBER:** | MPFACCIS0516 |
| **SOLVENT(S):** | Methanol / Water (<1%) |
| **DATE PREPARED:** (mm/dd/yyyy) | 05/24/2016 |
| **LAST TESTED:** (mm/dd/yyyy) | 05/02/2017 |
| **EXPIRY DATE:** (mm/dd/yyyy) | 05/02/2022 |
| **RECOMMENDED STORAGE:** | Store ampoule in a cool, dark place |

**DESCRIPTION:**

MPFAC-C-IS is a solution/mixture of mass-labelled ($^{13}C$) perfluoroalkylcarboxylic acids and a mass-labelled ($^{13}C$) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual mass-labelled perfluoroalkylcarboxylic acids and mass-labelled perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

***FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE***

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

## INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

## HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

## SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

## HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

## UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value $y$ and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

## TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

## EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

## LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

## QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17025 REFERENCE MATERIAL PRODUCER

**For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com**

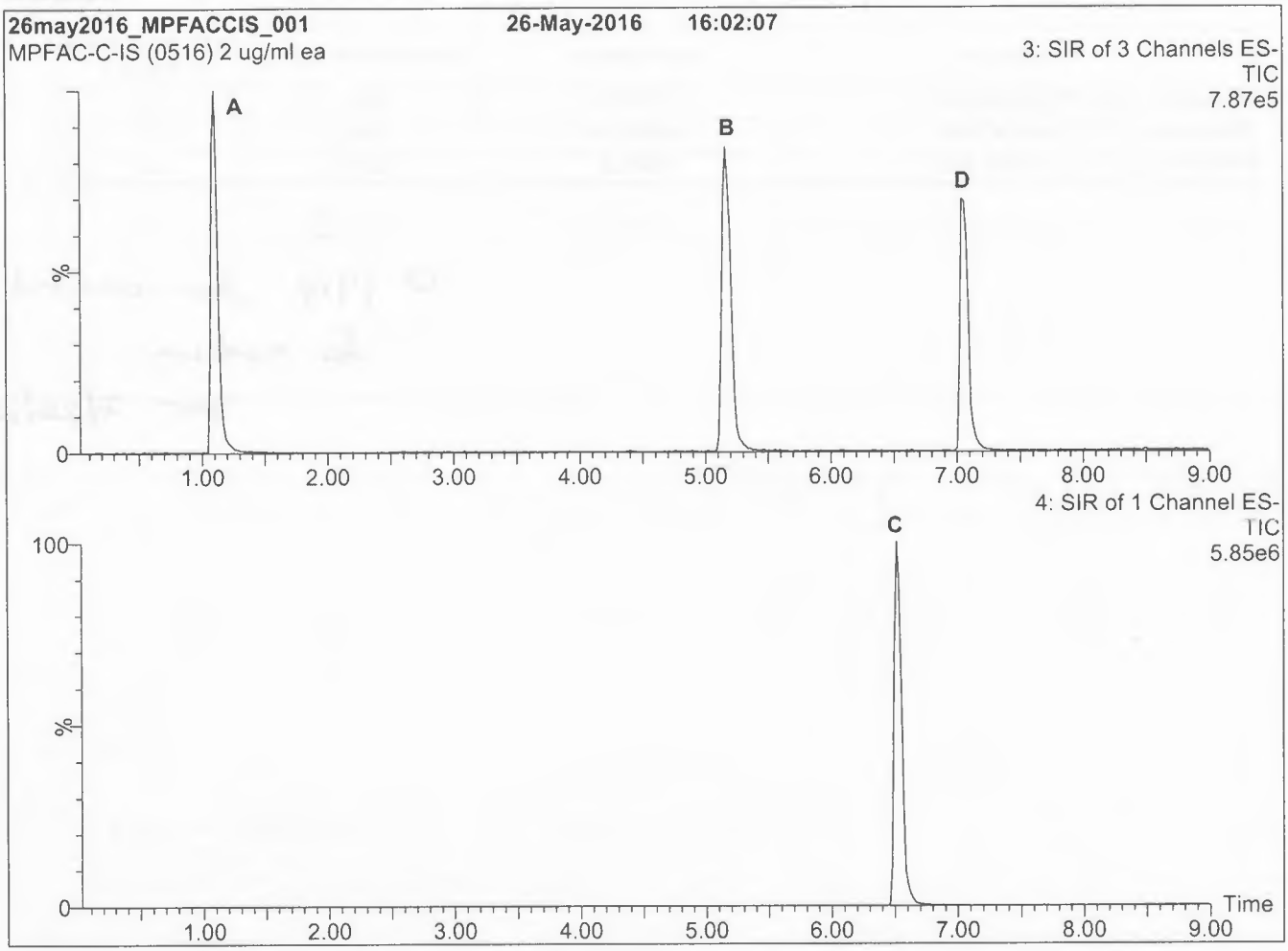
**Table A:** **MPFAC-C-IS; Components and Concentrations (ng/ml; ± 5% in Methanol / Water (<1%))**

| Compound | Abbreviation | Concentration (ng/ml) | Peak Assignment in Figure 1 |
|---|---|---|---|
| Perfluoro-n-[2,3,4-$^{13}C_3$]butanoic acid | M3PFBA | 2000 | A |
| Perfluoro-n-[1,2-$^{13}C_2$]octanoic acid | M2PFOA | 2000 | B |
| Perfluoro-n-[1,2-$^{13}C_2$]decanoic acid | MPFDA | 2000 | D |
| | | | |
| Sodium perfluoro-1-[1,2,3,4-$^{13}C_4$]octanesulfonate | MPFOS | 2000 ① | C |

① 1914 when corrected for sodium
JMT 7/26/2017

**Certified By:** _____ **Date:** 05/04/2017
(mm/dd/yyyy)
B.G. Chittim, General Manager

**Figure 1:** **MPFAC-C-IS; LC/MS Data (Total Ion Current Chromatogram; SIR)**




**Conditions for Figure 1:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 90% organic over 8 min
and hold for 2 min before returning
to initial conditions in 1 min.
Time: 12 min

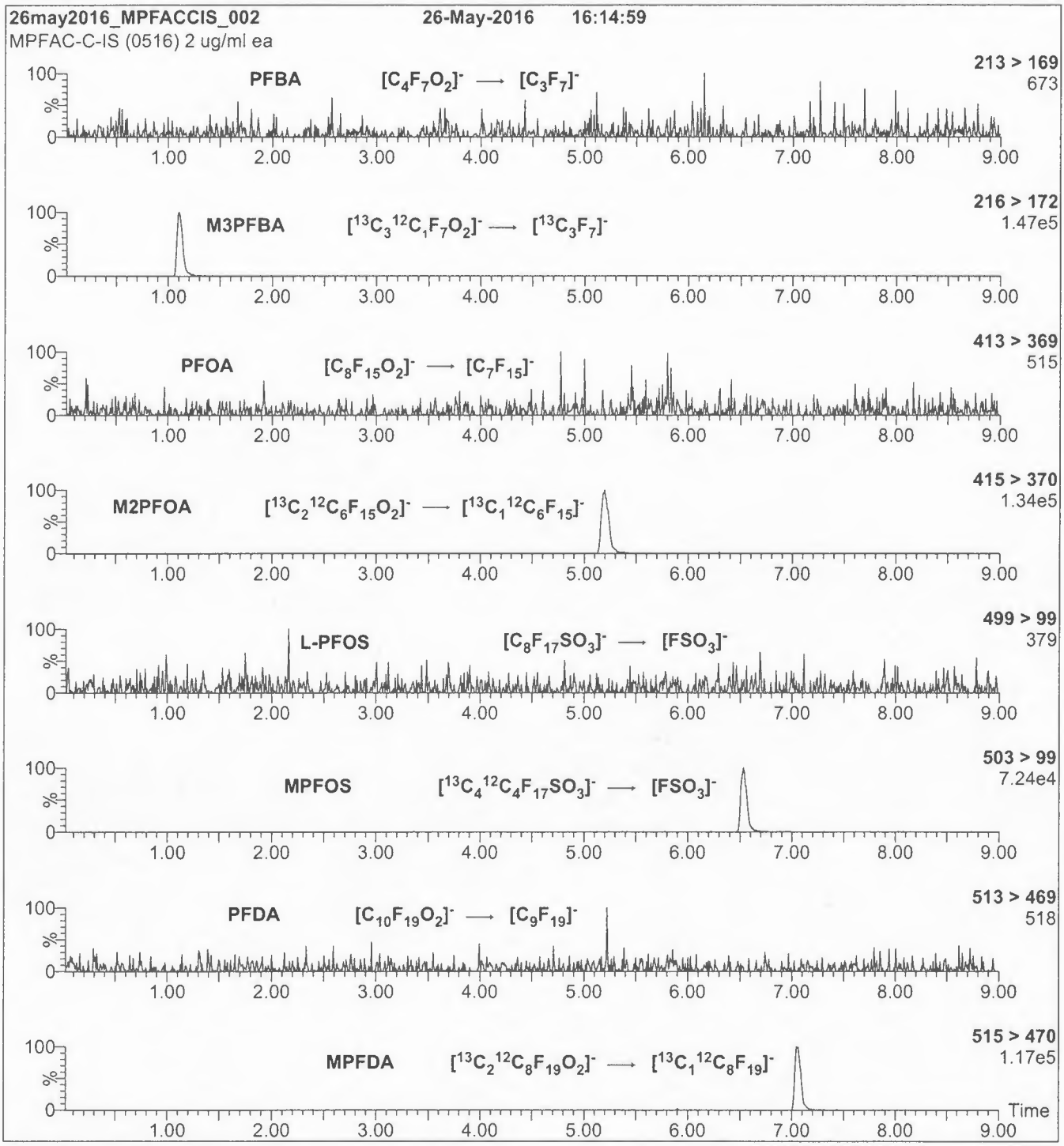
Flow: 300 µl/min

**MS Parameters**

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (10-80)
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** **MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)**




**Conditions for Figure 2:**

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.50e-3

Collision Energy (eV) = 8-50 (variable)

BATTELLE

It can be done

BDO Id: 180726-05

# Reagent Receipt Report

Approved: ☑ Authorized ☐

**Name:** Mass-labelled PFAS Extraction Stand
**Vendor:** Wellington Laboratories
**Catalogue No:** MPFAC-24ES
**Type:** Solution
**Lot No:** MPFAC24ES0218
**Quantity:** 2 ea 1.2 mL **% Moisture:** 0
**Description:** Mass-labelled PFAS Extraction Standard Solution

**Received:** 7/26/2018
**Custodian:** Thorn, Jonathan
**Expires:** 2/7/2023
**Consumed:**
**Stored In:** LC Laboratory - R0107

| Analyte: | CAS No: | Concentration (ug/mL): | Purity: | Density: | Density Units: | Cert | Cert Val: | Lower Limit: | Upper Limit: |
|---|---|---|---|---|---|---|---|---|---|
| 13C2-4:2FTS | BDO-2229 | 0.9350 | 100.00 | -- | -- | ☐ | | | |
| 13C2-6:2FTS | BDO-2230 | 0.9490 | 100.00 | -- | -- | ☐ | | | |
| 13C2-8:2FTS | BDO-2220 | 0.9580 | 100.00 | -- | -- | ☐ | | | |
| 13C2-PFDoA | BDO-2112 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C2-PFTeDA | BDO-2224 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C3-PFBS | BDO-2226 | 0.9290 | 100.00 | -- | -- | ☐ | | | |
| 13C3-PFHxS | BDO-2227 | 0.9460 | 100.00 | -- | -- | ☐ | | | |
| 13C4-PFBA | BDO-2105 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C4-PFHpA | BDO-2218 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C5-PFHxA | BDO-2217 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C5-PFPeA | BDO-2216 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C6-PFDA | BDO-2222 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C7-PFUnA | BDO-2223 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C8-FOSA | BDO-2225 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C8-PFOA | BDO-2219 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| 13C8-PFOS | BDO-2228 | 0.9570 | 100.00 | -- | -- | ☐ | | | |
| 13C9-PFNA | BDO-2221 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| d3-MeFOSAA | BDO-1838 | 1.0000 | 100.00 | -- | -- | ☐ | | | |
| d5-EtFOSAA | BDO-1839 | 1.0000 | 100.00 | -- | -- | ☐ | | | |

**Total Analytes:** 19

**Notes:**

**Approved by:** Lizotte Jr, Robert **Approved on:** 7/27/2018 11:10:00 AM
**Authorized by:** **Authorized on:**

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

# MPFAC-24ES

**Mass-Labelled Per- and Poly-fluoroalkyl Substance Extraction Standard Solution**

| | |
|---|---|
| **PRODUCT CODE:** | MPFAC-24ES |
| **LOT NUMBER:** | MPFAC24ES0218 |
| **SOLVENT(S):** | Methanol / Isopropanol (2%) / Water (<1%) |
| **DATE PREPARED:** (mm/dd/yyyy) | 02/07/2018 |
| **LAST TESTED:** (mm/dd/yyyy) | 02/07/2018 |
| **EXPIRY DATE:** (mm/dd/yyyy) | 02/07/2023 |
| **RECOMMENDED STORAGE:** | Refrigerate ampoule |

**DESCRIPTION:**

MPFAC-24ES is a solution/mixture of ten mass-labelled ($^{13}C$) perfluoroalkylcarboxylic acids ($C_4$-$C_{12}$ and $C_{14}$), three mass-labelled ($^{13}C$) perfluoroalkylsulfonates ($C_4$, $C_6$, and $C_8$), three mass-labelled ($^{13}C$) telomer sulfonates (4:2, 6:2, and 8:2), two mass-labelled ($^{2}H$) perfluorooctanesulfonamidoacetic acids, and perfluoro-1-[$^{13}C_8$]octanesulfonamide. The components and their concentrations are given in Table A.

The individual mass-labelled perfluoroalkylcarboxylic acids, mass-labelled perfluoroalkylsulfonates, mass-labelled telomer sulfonates, and perfluoro-1-[$^{13}C_8$]octanesulfonamide all have chemical purities of >98% and isotopic purities of ≥99%. The individual mass-labelled perfluorooctanesulfonamidoacetic acids all have chemical purities of >98% and isotopic purities of ≥98%.

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
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 acids to their respective methyl esters.

***FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE***

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

## INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

## HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

## SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

## HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

## UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value $y$ and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

## TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

## EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

## LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

## QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED 9017034 REFERENCE MATERIAL PRODUCER

**For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com**

**Table A:** **MPFAC-24ES; Components and Concentrations (ng/ml, ± 5% in Methanol / Isopropanol (2%) / Water (<1%))**

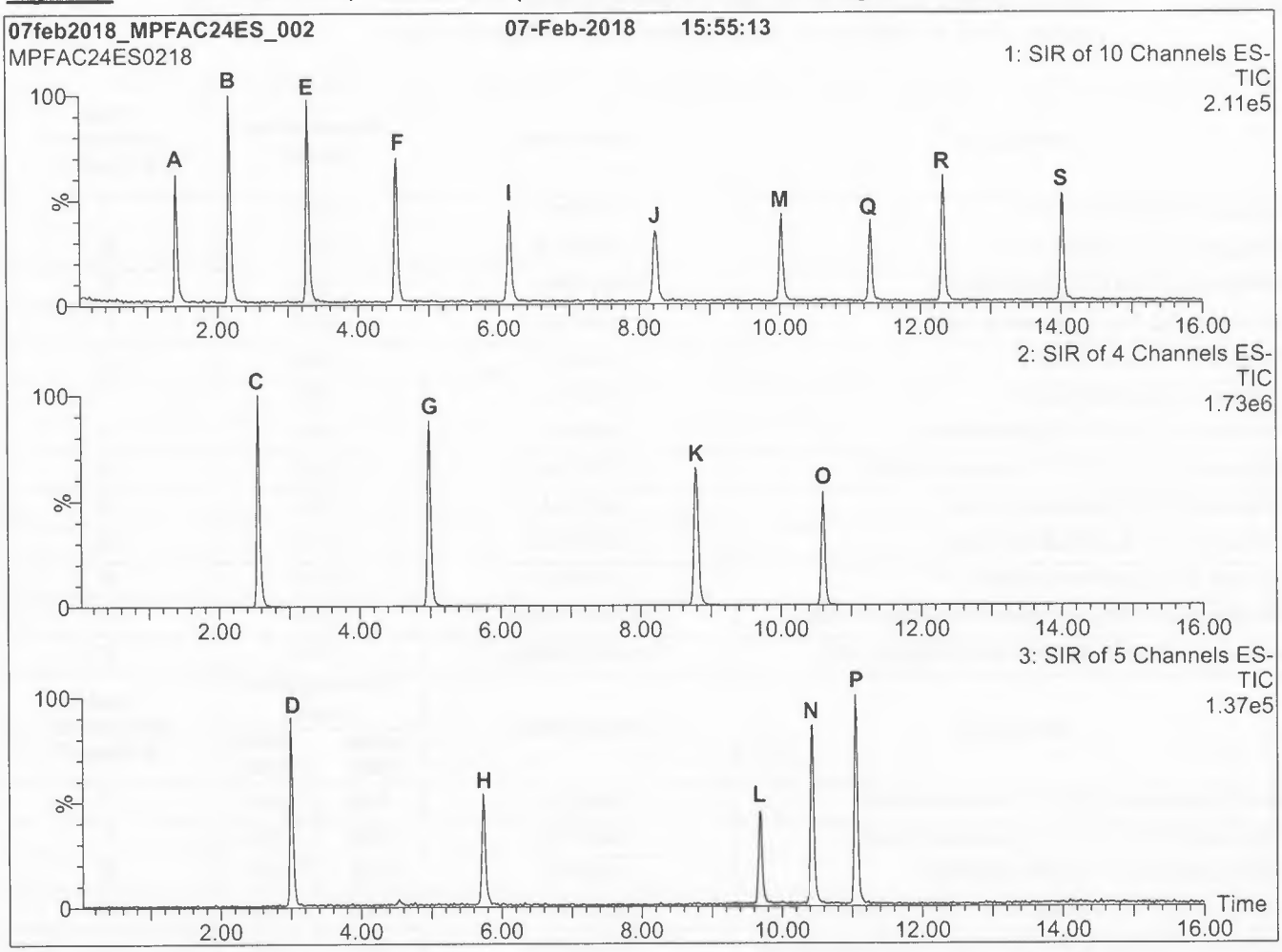
| Compound | Abbreviation | Concentration (ng/ml) | Peak Assignment in Figure 1 |
|---|---|---|---|
| Perfluoro-n-[$^{13}C_4$]butanoic acid | MPFBA | 1000 | A |
| Perfluoro-n-[$^{13}C_5$]pentanoic acid | M5PFPeA | 1000 | B |
| Perfluoro-n-[1,2,3,4,6-$^{13}C_5$]hexanoic acid | M5PFHxA | 1000 | E |
| Perfluoro-n-[1,2,3,4-$^{13}C_4$]heptanoic acid | M4PFHpA | 1000 | F |
| Perfluoro-n-[$^{13}C_8$]octanoic acid | M8PFOA | 1000 | I |
| Perfluoro-n-[$^{13}C_9$]nonanoic acid | M9PFNA | 1000 | J |
| Perfluoro-n-[1,2,3,4,5,6-$^{13}C_6$]decanoic acid | M6PFDA | 1000 | M |
| Perfluoro-n-[1,2,3,4,5,6,7-$^{13}C_7$]undecanoic acid | M7PFUdA | 1000 | Q |
| Perfluoro-n-[1,2-$^{13}C_2$]dodecanoic acid | MPFDoA | 1000 | R |
| Perfluoro-n-[1,2-$^{13}C_2$]tetradecanoic acid | M2PFTeDA | 1000 | S |
| Perfluoro-1-[$^{13}C_8$]octanesulfonamide | M8FOSA | 1000 | O |
| N-methyl-$d_3$-perfluoro-1-octanesulfonamidoacetic acid | d3-N-MeFOSAA | 1000 | N |
| N-ethyl-$d_5$-perfluoro-1-octanesulfonamidoacetic acid | d5-N-EtFOSAA | 1000 | P |

| Compound | Abbreviation | Concentration (ng/ml) | | Peak Assignment in Figure 1 |
|---|---|---|---|---|
| | | as the salt | as the anion | |
| Sodium perfluoro-1-[2,3,4-$^{13}C_3$]butanesulfonate | M3PFBS | 1000 | 929 | C |
| Sodium perfluoro-1-[1,2,3-$^{13}C_3$]hexanesulfonate | M3PFHxS | 1000 | 946 | G |
| Sodium perfluoro-1-[$^{13}C_8$]octanesulfonate | M8PFOS | 1000 | 957 | K |
| Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-$^{13}C_2$]hexanesulfonate | M2-4:2FTS | 1000 | 935 | D |
| Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-$^{13}C_2$]octanesulfonate | M2-6:2FTS | 1000 | 949 | H |
| Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-$^{13}C_2$]decanesulfonate | M2-8:2FTS | 1000 | 958 | L |

**Certified By:** _____ **Date:** 02/09/2018 (mm/dd/yyyy)

B.G. Chittim, General Manager

**Figure 1:** **MPFAC-24ES; LC/MS Data (Total Ion Current Chromatogram; SIR)**




**Conditions for Figure 1:**

**LC:** **Waters Acquity Ultra Performance LC**
**MS:** **Micromass Quattro *micro* API MS**

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield $RP_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% (80:20 MeOH:ACN) / 60% $H_2O$
(both with 10 mM $NH_4OAc$ buffer)
Ramp to 55% organic over 3.5 min.
Ramp to 70% organic over 6.5 min.
Ramp to 85% organic over 5 min and hold for
1 min before returning to initial conditions in 0.5 min.
Time: 17 min

Flow: 300 µl/min

**MS Parameters**

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = variable (10-60)
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** **MPFAC-24ES; LC/MS/MS Data (Selected MRM Transitions)**

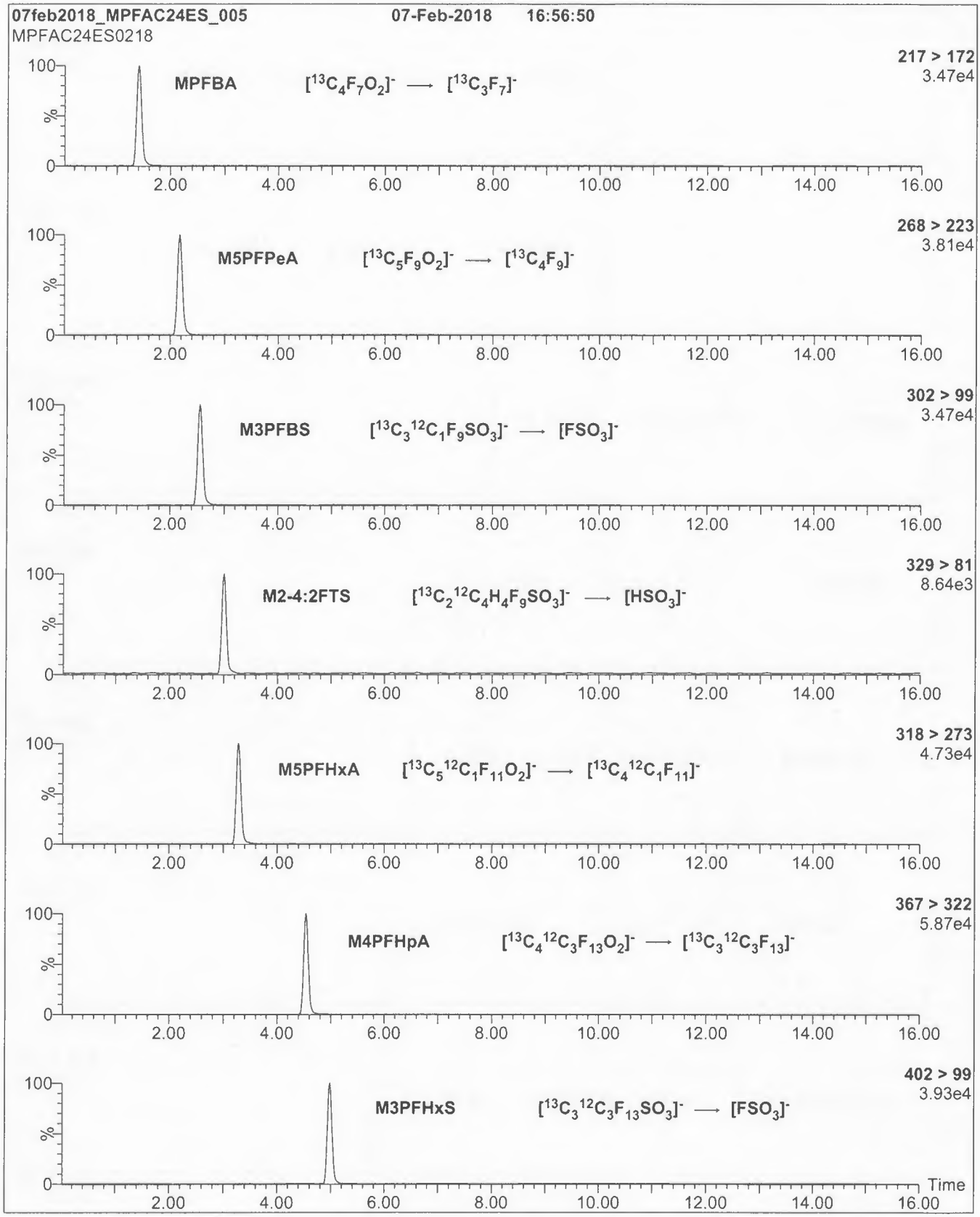


**Figure 2:** **MPFAC-24ES; LC/MS/MS Data (Selected MRM Transitions)**

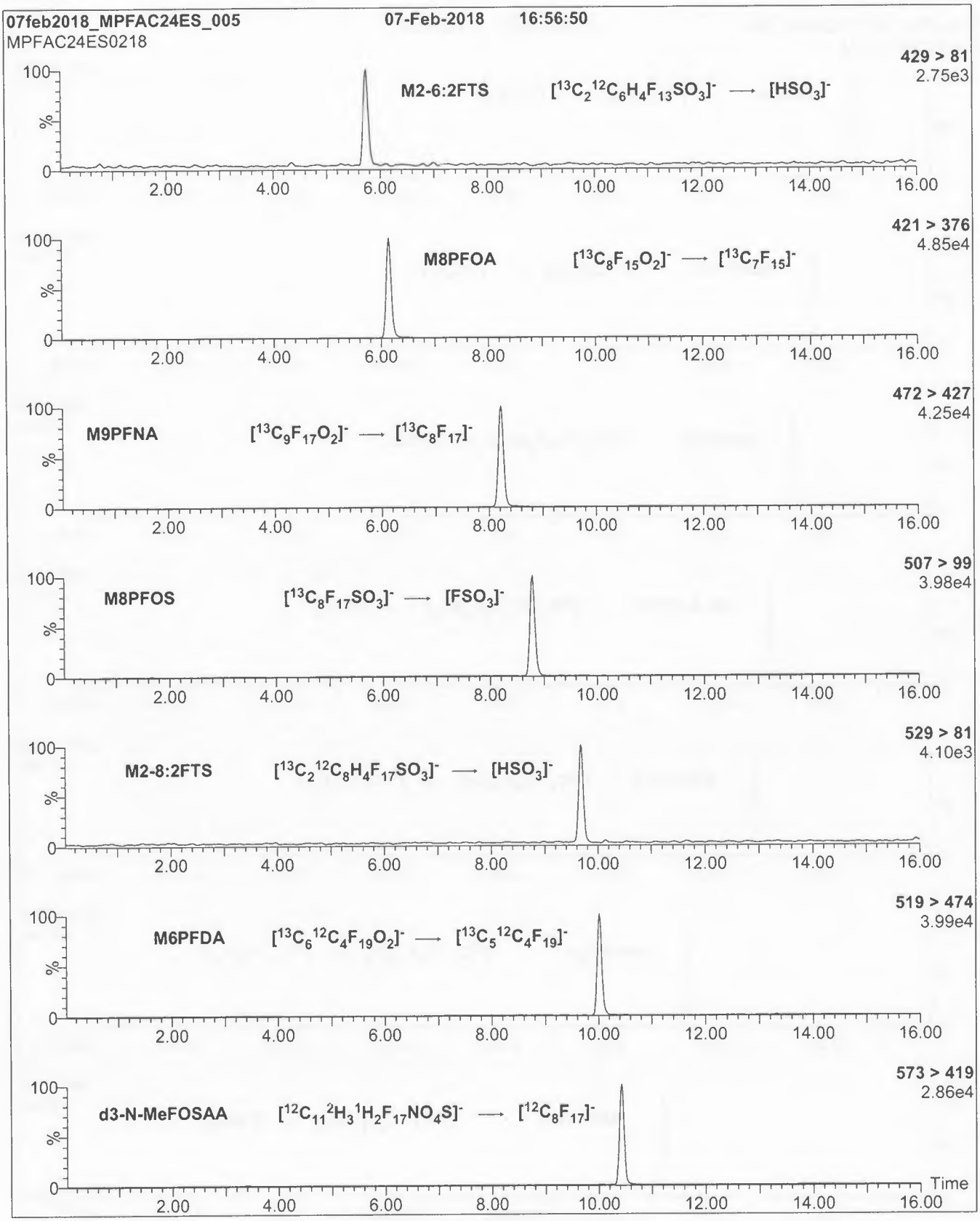
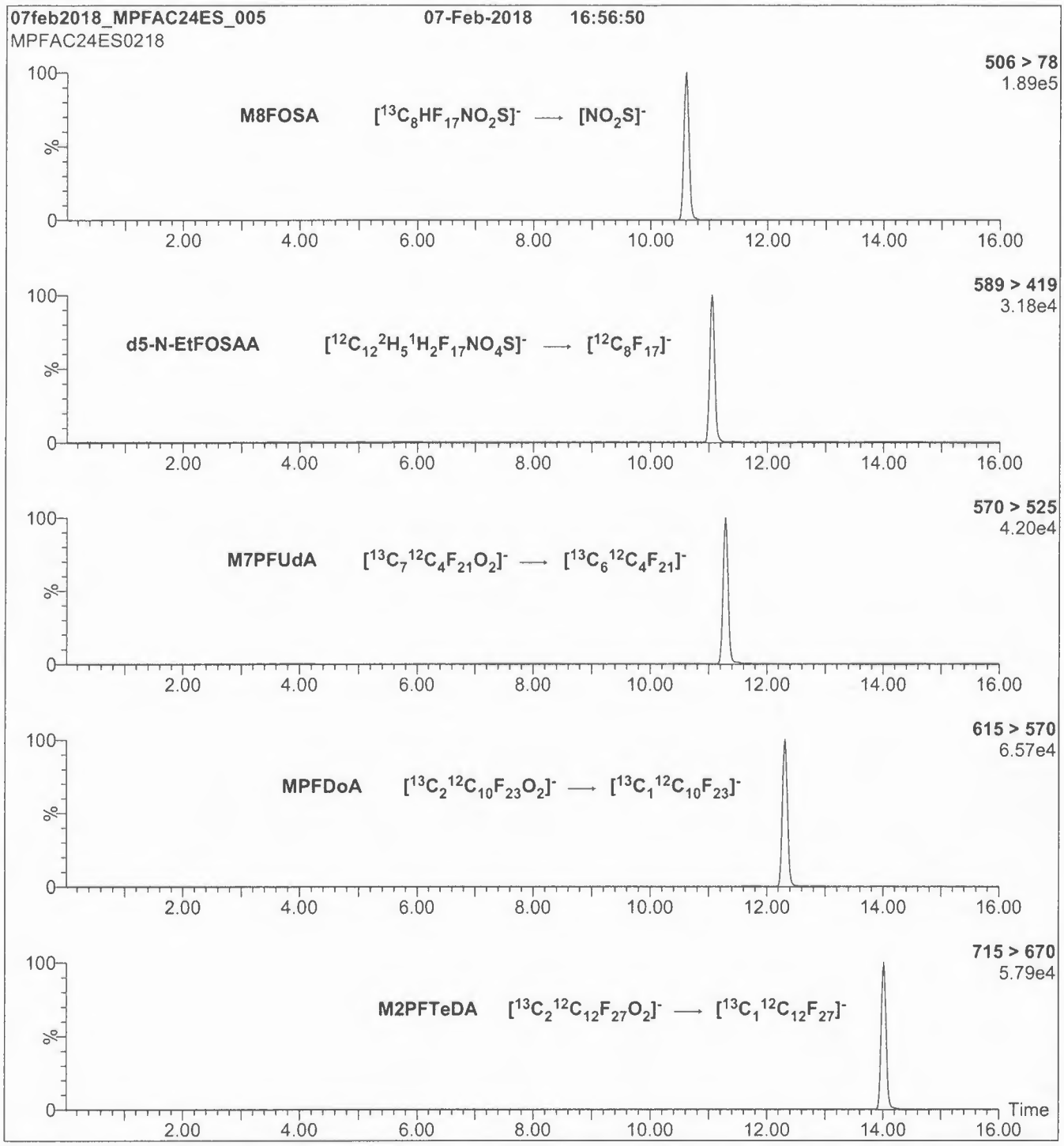


**Figure 2:** **MPFAC-24ES; LC/MS/MS Data (Selected MRM Transitions)**




**Conditions for Figure 2:**

Injection: On-column (MPFAC-24ES)

Mobile phase: Same as Figure 1

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.28e-3

Collision Energy (eV) = 8-40 (variable)

# Sample Preparation

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# BATTELLE - NORWELL OPERATIONS
## SAMPLE PREPARATION RECORDS

| **Project Title(s)** | **Project No.(s)** |
|---|---|
| CTO-4164 Naval Base Ventura County, California | 100110125-01 |

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

SOP Numbers (see workplan for modifications)

ExtractionSOP No. 5-370

| **This Batch Contains The Following Samples:** | | | |
|---|---|---|---|
| CR884PB-FS | J8289-FS | J8321-FS | J8330-FS |
| CR885LCS-FS | J8290-FS | J8322-FS | J8331-FS |
| J8285-FS | J8308-FS | J8323-FS | J8337-FS |
| J8286-FS | J8309-FS | J8324-FS | |
| J8287-FS | J8319-FS | J8325MS-FS | |
| J8288-FS | J8320-FS | J8326MSD-FS | |

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Stephanie Schultz

| Approved By: | Date | Initials |
|---|---|---|
| Denise Schumitz | 10/23/2018 | DMS |

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# BATTELLE - NORWELL OPERATIONS
## SAMPLE IDENTIFICATION PAGE

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Sample ID | Description |
|---|---|
| CR884PB-FS | Procedural Blank |
| CR885LCS-FS | Laboratory Control Sample |
| J8285-FS | VC-CS94-DW01-0918 |
| J8286-FS | VC-CS94-DW01P-0918 |
| J8287-FS | VC-CS94-DW02-0918 |
| J8288-FS | VC-CS94-DW03-0918 |
| J8289-FS | VC-CS94-DW04-0918 |
| J8290-FS | VC-CS94-DW05-0918 |
| J8308-FS | VC-SO-FB04-092118 |
| J8309-FS | VC-SO-EB04-092118 |
| J8319-FS | VC-PM323-324-DW01-0918 |
| J8320-FS | VC-PM323-324-DW01P-0918 |
| J8321-FS | VC-PM323-324-DW02-0918 |
| J8322-FS | VC-PM323-324-DW03-0918 |
| J8323-FS | VC-AQ-FB03-092018 |
| J8324-FS | VC-AQ-EB03-092018 |
| J8325MS-FS | Matrix Spike of VC-PM323-324-DW02-0918-MS |
| J8326MSD-FS | Matrix Spike Duplicate of VC-PM323-324-DW02-0918-MSD |
| J8330-FS | VC-PM323-DW02-0918 |
| J8331-FS | VC-PM323-DW02P-0918 |
| J8337-FS | VC-PM324-DW02-0918 |

Samples Assigned By: Jonathan Thorn Date : September 25, 2018

Comments:

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# BATTELLE - NORWELL OPERATIONS
## SAMPLE CUSTODY LOG

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| | | | |
|---|---|---|---|
| **Requested On/By:** | 09/28/2018 SAS | **Purpose:** | Sample Preparation |
| **Relinquished On/By:** | 09/28/2018 MDS | **Last Activity:** | Return |

| | | | |
|---|---|---|---|
| **Accepted On/By:** | 09/28/2018 SAS | **Returned On/To:** | 09/28/2018 MDS |
| **Stored In Facility:** | Sample Preparation | **Returned To Facility:** | Custody: NA |
| **Stored Until** | 09/28/2018 | | |
| **Stored Comment:** | NA | **Returned Comment:** | NA |

| No. | BDO-ID: | Ctrs | * | Condition: | Custody Comment: |
|---|---|---|---|---|---|
| 1 | J8285 | 1 | C | Intact | NA |
| 2 | J8286 | 2 | -- | Intact | NA |
| 3 | J8287 | 2 | C | Intact | NA |
| 4 | J8288 | 2 | C | Intact | NA |
| 5 | J8289 | 2 | C | Intact | NA |
| 6 | J8290 | 2 | C | Intact | NA |
| 7 | J8308 | 1 | C | Consumed | NA |
| 8 | J8309 | 1 | C | Consumed | NA |
| 9 | J8319 | 1 | -- | Intact | NA |
| 10 | J8320 | 2 | -- | Intact | NA |
| 11 | J8321 | 2 | -- | Intact | NA |
| 12 | J8322 | 1 | -- | Intact | NA |
| 13 | J8323 | 1 | C | Consumed | NA |
| 14 | J8324 | 1 | C | Consumed | NA |
| 15 | J8330 | 1 | -- | Intact | NA |
| 16 | J8331 | 2 | -- | Intact | NA |
| 17 | J8337 | 2 | -- | Intact | NA |

**Total Samples** 17 * "C" = Consumed Container

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# BATTELLE - NORWELL OPERATIONS
## LIQUID SAMPLE ID FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Sample ID | Description | Volume (mL) | Bottles | * | Date Initials |
|---|---|---|---|---|---|
| CR884PB-FS | Procedural Blank | 250.0 | NA | -- | 09/28/18 LMG |
| CR885LCS-FS | Laboratory Control Sample | 250.0 | NA | -- | 09/28/18 LMG |
| J8285-FS | VC-CS94-DW01-0918 | 270.0 | 1 | C | 10/01/18 LMG |
| J8286-FS | VC-CS94-DW01P-0918 | 125.0 | 2 | -- | 10/01/18 LMG |
| J8287-FS | VC-CS94-DW02-0918 | 275.0 | 2 | C | 10/01/18 LMG |
| J8288-FS | VC-CS94-DW03-0918 | 275.0 | 2 | C | 10/01/18 LMG |
| J8289-FS | VC-CS94-DW04-0918 | 285.0 | 2 | C | 10/01/18 LMG |
| J8290-FS | VC-CS94-DW05-0918 | 290.0 | 2 | C | 10/01/18 LMG |
| J8308-FS | VC-SO-FB04-092118 | 265.0 | 1 | C | 10/01/18 LMG |
| J8309-FS | VC-SO-EB04-092118 | 260.0 | 1 | C | 10/01/18 LMG |
| J8319-FS | VC-PM323-324-DW01-0918 | 2.0 | 1 | -- | 09/28/18 JRT |
| J8320-FS | VC-PM323-324-DW01P-0918 | 2.0 | 2 | -- | 09/28/18 JRT |
| J8321-FS | VC-PM323-324-DW02-0918 | 2.0 | 2 | -- | 09/28/18 JRT |
| J8322-FS | VC-PM323-324-DW03-0918 | 2.0 | 1 | -- | 09/28/18 JRT |
| J8323-FS | VC-AQ-FB03-092018 | 270.0 | 1 | C | 10/01/18 LMG |
| J8324-FS | VC-AQ-EB03-092018 | 210.0 | 1 | C | 10/01/18 LMG |
| J8325MS-FS | Matrix Spike | 2.0 | 2 | -- | 09/28/18 JRT |
| J8326MSD-FS | Matrix Spike Duplicate | 2.0 | 2 | -- | 09/28/18 JRT |
| J8330-FS | VC-PM323-DW02-0918 | 100.0 | 1 | -- | 10/01/18 LMG |
| J8331-FS | VC-PM323-DW02P-0918 | 100.0 | 2 | -- | 10/01/18 LMG |
| J8337-FS | VC-PM324-DW02-0918 | 125.0 | 2 | -- | 10/01/18 LMG |

**Comments:**

Samples Assigned By Jonathan Thorn Date : September 25, 2018

* - "C" = Sample is Consumed

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# BATTELLE - NORWELL OPERATIONS
## SURROGATE SPIKE FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Sample ID | Standard ID | Type | Vial No. | Vol Added (uL) | Date Spiked/ Spiked By | Witn'd By | Comment |
|---|---|---|---|---|---|---|---|
| CR884PB-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| CR885LCS-FS | JZ88 | LCS/MS | 1 | 150 | 09/28/18 SAS | LMG | NA |
| CR885LCS-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8285-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8286-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8287-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8288-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8289-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8290-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8308-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8309-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8319-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8320-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8321-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8322-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8323-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8324-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8325MS-FS | JZ88 | LCS/MS | 1 | 300 | 09/28/18 SAS | LMG | NA |
| J8325MS-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8326MSD-FS | JZ88 | LCS/MS | 1 | 300 | 09/28/18 SAS | LMG | NA |
| J8326MSD-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8330-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8331-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |
| J8337-FS | KB33 | SIS | 1 | 50 | 09/28/18 SAS | LMG | NA |

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# BATTELLE - NORWELL OPERATIONS
## SURROGATE SPIKE FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

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

Syringes/Pipettes Used:

| Std ID | Type | Syr/Pip |
|---|---|---|
| JZ88 | Pipette | B814657482 |
| KB33 | Pipette | B814659662 |

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# BATTELLE - NORWELL OPERATIONS
## SAMPLE EXTRACTION FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Sample ID | 1st Extraction | 2nd Extraction | 3rd Extraction | Conc. ID | Turbo °C | Turbo PSI | KD °C | Comment |
|---|---|---|---|---|---|---|---|---|
| CR884PB-FS | 09/28/18 LMG | NA | NA | NA | NA | NA | NA | NA |
| CR885LCS-FS | 09/28/18 LMG | NA | NA | NA | NA | NA | NA | NA |
| J8285-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8286-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8287-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8288-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8289-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8290-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8308-FS | 09/28/18 LMG | NA | NA | NA | NA | NA | NA | NA |
| J8309-FS | 09/28/18 LMG | NA | NA | NA | NA | NA | NA | NA |
| J8319-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8320-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8321-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8322-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8323-FS | 09/28/18 LMG | NA | NA | NA | NA | NA | NA | NA |
| J8324-FS | 09/28/18 LMG | NA | NA | NA | NA | NA | NA | NA |
| J8325MS-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8326MSD-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8330-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8331-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |
| J8337-FS | 09/28/18 SAS | NA | NA | NA | NA | NA | NA | NA |

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# BATTELLE - NORWELL OPERATIONS
## SAMPLE EXTRACTION FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Sample ID | 1st Extraction | 2nd Extraction | 3rd Extraction | Conc. ID | Turbo °C | Turbo PSI | KD °C | Comment |
|---|---|---|---|---|---|---|---|---|

**Solvents/Reagent Preparations:**

| Name | ID | Expires | Lot No | Procedure | Comments |
|---|---|---|---|---|---|
| 0.4% NH3 in Methanol | RP-180928-2 | 09/28/18 | 182674 | Per 100 mL, 3.5 mL ammonia solution brought to 100 mL with methanol | |
| 0.4% NH3 in Methanol | RP-180928-2 | 09/28/18 | SHBJ0412 | Per 100 mL, 3.5 mL ammonia solution brought to 100 mL with methanol | |
| Pre-packed SPE Column | RP-180928-3 | 09/29/18 | 003537250A/ 0035 | Pre-packed SPE Column | |

**Solvents/Reagents:**

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# BATTELLE - NORWELL OPERATIONS
## INTERNAL STANDARD SPIKING FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CR884PB-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| CR885LCS-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8285-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8285-FS-D(3) | 955 | 45 | KB34 | 50 | 1 | 1000 | 10.000 | 10/03/18 JRT | SAS |
| J8285-FS-D(5) | 952 | 48 | KB34 | 50 | 1 | 1000 | 25.000 | 10/03/18 JRT | SAS |
| J8285-FS-D(7) | 952 | 48 | KB34 | 50 | 1 | 1000 | 250.000 | 10/03/18 JRT | SAS |
| J8285-FS-D(9) | 975 | 25 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8286-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8286-FS-D(3) | 960 | 40 | KB34 | 50 | 1 | 1000 | 5.000 | 10/03/18 JRT | SAS |
| J8286-FS-D(5) | 952 | 48 | KB34 | 50 | 1 | 1000 | 25.000 | 10/03/18 JRT | SAS |
| J8286-FS-D(7) | 951 | 49 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8286-FS-D(9) | 955 | 45 | KB34 | 50 | 1 | 1000 | 250.000 | 10/03/18 JRT | SAS |
| J8286-FS-D(11) | 960 | 40 | KB34 | 50 | 1 | 1000 | 1250.000 | 10/09/18 LMG | SAS |
| J8287-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8287-FS-D(3) | 960 | 40 | KB34 | 50 | 1 | 1000 | 5.000 | 10/03/18 JRT | SAS |
| J8287-FS-D(5) | 954 | 46 | KB34 | 50 | 1 | 1000 | 12.500 | 10/03/18 JRT | SAS |
| J8287-FS-D(7) | 960 | 40 | KB34 | 50 | 1 | 1000 | 62.500 | 10/03/18 JRT | SAS |
| J8287-FS-D(9) | 960 | 40 | KB34 | 50 | 1 | 1000 | 312.500 | 10/09/18 LMG | SAS |
| J8288-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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# BATTELLE - NORWELL OPERATIONS
## INTERNAL STANDARD SPIKING FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| J8288-FS-D(3) | 960 | 40 | KB34 | 50 | 1 | 1000 | 5.000 | 10/03/18 JRT | SAS |
| J8289-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8289-FS-D(3) | 952 | 48 | KB34 | 50 | 1 | 1000 | 25.000 | 10/03/18 JRT | SAS |
| J8289-FS-D(5) | 960 | 40 | KB34 | 50 | 1 | 1000 | 5.000 | 10/09/18 LMG | SAS |
| J8290-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8290-FS-D(3) | 960 | 40 | KB34 | 50 | 1 | 1000 | 5.000 | 10/03/18 JRT | SAS |
| J8290-FS-D(5) | 951 | 49 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8308-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8309-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8319-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8319-FS-D(3) | 955 | 45 | KB34 | 50 | 1 | 1000 | 10.000 | 10/03/18 JRT | SAS |
| J8319-FS-D(5) | 951 | 49 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8319-FS-D(7) | 975 | 25 | KB34 | 50 | 1 | 1000 | 100.000 | 10/03/18 JRT | SAS |
| J8319-FS-D(9) | 970 | 30 | KB34 | 50 | 1 | 1000 | 250.000 | 10/03/18 JRT | SAS |
| J8319-FS-D(11) | 960 | 40 | KB34 | 50 | 1 | 1000 | 1250.000 | 10/09/18 LMG | SAS |
| J8320-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8320-FS-D(3) | 954 | 46 | KB34 | 50 | 1 | 1000 | 12.500 | 10/03/18 JRT | SAS |
| J8320-FS-D(5) | 951 | 49 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8320-FS-D(7) | 975 | 25 | KB34 | 50 | 1 | 1000 | 100.000 | 10/03/18 JRT | SAS |

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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# BATTELLE - NORWELL OPERATIONS
## INTERNAL STANDARD SPIKING FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| J8320-FS-D(9) | 975 | 25 | KB34 | 50 | 1 | 1000 | 200.000 | 10/03/18 JRT | SAS |
| J8320-FS-D(11) | 960 | 40 | KB34 | 50 | 1 | 1000 | 1000.000 | 10/09/18 LMG | SAS |
| J8321-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8321-FS-D(3) | 955 | 45 | KB34 | 50 | 1 | 1000 | 10.000 | 10/03/18 JRT | SAS |
| J8321-FS-D(5) | 952 | 48 | KB34 | 50 | 1 | 1000 | 25.000 | 10/03/18 JRT | SAS |
| J8321-FS-D(7) | 975 | 25 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8321-FS-D(9) | 970 | 30 | KB34 | 50 | 1 | 1000 | 125.000 | 10/03/18 JRT | SAS |
| J8321-FS-D(11) | 960 | 40 | KB34 | 50 | 1 | 1000 | 625.000 | 10/09/18 LMG | NA |
| J8322-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8322-FS-D(3) | 951 | 49 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8322-FS-D(5) | 970 | 30 | KB34 | 50 | 1 | 1000 | 125.000 | 10/03/18 JRT | SAS |
| J8322-FS-D(7) | 965 | 35 | KB34 | 50 | 1 | 1000 | 416.667 | 10/03/18 JRT | SAS |
| J8322-FS-D(9) | 955 | 45 | KB34 | 50 | 1 | 1000 | 4166.667 | 10/09/18 LMG | SAS |
| J8323-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8324-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8325MS-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8325MS-FS-D(3) | 955 | 45 | KB34 | 50 | 1 | 1000 | 10.000 | 10/03/18 JRT | SAS |
| J8325MS-FS-D(5) | 960 | 40 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8325MS-FS-D(7) | 970 | 30 | KB34 | 50 | 1 | 1000 | 125.000 | 10/03/18 JRT | SAS |

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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# BATTELLE - NORWELL OPERATIONS
## INTERNAL STANDARD SPIKING FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| J8325MS-FS-D(9) | 960 | 40 | KB34 | 50 | 1 | 1000 | 625.000 | 10/09/18 LMG | SAS |
| J8326MSD-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8326MSD-FS-D(3) | 955 | 45 | KB34 | 50 | 1 | 1000 | 10.000 | 10/03/18 JRT | SAS |
| J8326MSD-FS-D(5) | 960 | 40 | KB34 | 50 | 1 | 1000 | 50.000 | 10/03/18 JRT | SAS |
| J8326MSD-FS-D(7) | 970 | 30 | KB34 | 50 | 1 | 1000 | 125.000 | 10/03/18 JRT | SAS |
| J8326MSD-FS-D(9) | 960 | 40 | KB34 | 50 | 1 | 1000 | 625.000 | 10/09/18 LMG | SAS |
| J8330-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8330-FS-D(3) | 952 | 48 | KB34 | 50 | 1 | 1000 | 25.000 | 10/03/18 JRT | SAS |
| J8330-FS-D(5) | 960 | 40 | KB34 | 50 | 1 | 1000 | 125.000 | 10/03/18 JRT | SAS |
| J8330-FS-D(7) | 965 | 35 | KB34 | 50 | 1 | 1000 | 416.667 | 10/03/18 JRT | SAS |
| J8331-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8331-FS-D(3) | 955 | 45 | KB34 | 50 | 1 | 1000 | 10.000 | 10/03/18 JRT | SAS |
| J8331-FS-D(5) | 955 | 45 | KB34 | 50 | 1 | 1000 | 100.000 | 10/03/18 JRT | SAS |
| J8331-FS-D(7) | 970 | 30 | KB34 | 50 | 1 | 1000 | 250.000 | 10/03/18 JRT | SAS |
| J8337-FS(0) | 950 | 50 | KB34 | 50 | 1 | 1000 | 1.000 | 10/03/18 JRT | SAS |
| J8337-FS-D(3) | 955 | 45 | KB34 | 50 | 1 | 1000 | 10.000 | 10/03/18 JRT | SAS |
| J8337-FS-D(5) | 965 | 35 | KB34 | 50 | 1 | 1000 | 33.333 | 10/03/18 JRT | SAS |
| J8337-FS-D(7) | 951 | 49 | KB34 | 50 | 1 | 1000 | 1666.667 | 10/03/18 JRT | SAS |
| J8337-FS-D(9) | 960 | 40 | KB34 | 49.8 | 1 | 1000 | 170.068 | 10/09/18 LMG | SAS |

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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# BATTELLE - NORWELL OPERATIONS
## INTERNAL STANDARD SPIKING FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| J8337-FS-D(11) | 951 | 49 | KC03 | 49 | 1 | 1000 | 12.500 | 10/15/18 LMG | SAS |
| J8337-FS-D(13) | 951 | 49 | KC03 | 49 | 1 | 1000 | 50.000 | 10/17/18 LMG | SAS |

Syringes/Pipettes Used:

| Std ID | Type | Syr/Pip |
|---|---|---|
| KB33 | Pipette | B814659662 |
| KB34 | Pipette | B814659662 |
| KB72 | Pipette | B814659662 |
| KC03 | Pipette | B814659662 |

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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# BATTELLE - NORWELL OPERATIONS
## EXTRACT SPIKE FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| J8285-FS-D(3) | 10 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8285-FS-D(5) | 25 | KB33 | SIS | 1 | 48 | 0 | 0 | 10/03/18 JRT | SAS |
| J8285-FS-D(7) | 250 | KB33 | SIS | 1 | 48 | 0 | 0 | 10/03/18 JRT | SAS |
| J8285-FS-D(9) | 50 | KB33 | SIS | 1 | 25 | 0 | 0 | 10/03/18 JRT | SAS |
| J8286-FS-D(3) | 5 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8286-FS-D(5) | 25 | KB33 | SIS | 1 | 48 | 0 | 0 | 10/03/18 JRT | SAS |
| J8286-FS-D(7) | 50 | KB33 | SIS | 1 | 49 | 0 | 0 | 10/03/18 JRT | SAS |
| J8286-FS-D(9) | 250 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8286-FS-D(11) | 1250 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8287-FS-D(3) | 5 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8287-FS-D(5) | 12.5 | KB33 | SIS | 1 | 46 | 0 | 0 | 10/03/18 JRT | SAS |
| J8287-FS-D(7) | 62.5 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8287-FS-D(9) | 312.5 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8288-FS-D(3) | 5 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8289-FS-D(3) | 25 | KB33 | SIS | 1 | 48 | 0 | 0 | 10/03/18 JRT | SAS |
| J8289-FS-D(5) | 5 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8290-FS-D(3) | 5 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8290-FS-D(5) | 50 | KB33 | SIS | 1 | 49 | 0 | 0 | 10/03/18 JRT | SAS |
| J8319-FS-D(3) | 10 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8319-FS-D(5) | 50 | KB33 | SIS | 1 | 49 | 0 | 0 | 10/03/18 JRT | SAS |
| J8319-FS-D(7) | 100 | KB33 | SIS | 1 | 25 | 0 | 0 | 10/03/18 JRT | SAS |
| J8319-FS-D(9) | 250 | KB33 | SIS | 1 | 30 | 0 | 0 | 10/03/18 JRT | SAS |
| J8319-FS-D(11) | 1250 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8320-FS-D(3) | 12.5 | KB33 | SIS | 1 | 46 | 0 | 0 | 10/03/18 JRT | SAS |
| J8320-FS-D(5) | 50 | KB33 | SIS | 1 | 49 | 0 | 0 | 10/03/18 JRT | SAS |

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# BATTELLE - NORWELL OPERATIONS
## EXTRACT SPIKE FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| J8320-FS-D(7) | 100 | KB33 | SIS | 1 | 25 | 0 | 0 | 10/03/18 JRT | SAS |
| J8320-FS-D(9) | 200 | KB33 | SIS | 1 | 25 | 0 | 0 | 10/03/18 JRT | SAS |
| J8320-FS-D(11) | 1000 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8321-FS-D(3) | 10 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8321-FS-D(5) | 25 | KB33 | SIS | 1 | 48 | 0 | 0 | 10/03/18 JRT | SAS |
| J8321-FS-D(7) | 50 | KB33 | SIS | 1 | 25 | 0 | 0 | 10/03/18 JRT | SAS |
| J8321-FS-D(9) | 125 | KB33 | SIS | 1 | 30 | 0 | 0 | 10/03/18 JRT | SAS |
| J8321-FS-D(11) | 625 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8322-FS-D(3) | 50 | KB33 | SIS | 1 | 49 | 0 | 0 | 10/03/18 JRT | SAS |
| J8322-FS-D(5) | 125 | KB33 | SIS | 1 | 30 | 0 | 0 | 10/03/18 JRT | SAS |
| J8322-FS-D(7) | 416.667 | KB33 | SIS | 1 | 35 | 0 | 0 | 10/03/18 JRT | SAS |
| J8322-FS-D(9) | 4166.667 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/09/18 LMG | SAS |
| J8325MS-FS-D(3) | 10 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8325MS-FS-D(5) | 50 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8325MS-FS-D(7) | 125 | KB33 | SIS | 1 | 30 | 0 | 0 | 10/03/18 JRT | SAS |
| J8325MS-FS-D(9) | 625 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8326MSD-FS-D(3) | 10 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8326MSD-FS-D(5) | 50 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8326MSD-FS-D(7) | 125 | KB33 | SIS | 1 | 30 | 0 | 0 | 10/03/18 JRT | SAS |
| J8326MSD-FS-D(9) | 625 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8330-FS-D(3) | 25 | KB33 | SIS | 1 | 48 | 0 | 0 | 10/03/18 JRT | SAS |
| J8330-FS-D(5) | 125 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/03/18 JRT | SAS |
| J8330-FS-D(7) | 416.667 | KB33 | SIS | 1 | 35 | 0 | 0 | 10/03/18 JRT | SAS |
| J8331-FS-D(3) | 10 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8331-FS-D(5) | 100 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |

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# BATTELLE - NORWELL OPERATIONS
## EXTRACT SPIKE FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| J8331-FS-D(7) | 250 | KB33 | SIS | 1 | 30 | 0 | 0 | 10/03/18 JRT | SAS |
| J8337-FS-D(3) | 10 | KB33 | SIS | 1 | 45 | 0 | 0 | 10/03/18 JRT | SAS |
| J8337-FS-D(5) | 33.333 | KB33 | SIS | 1 | 35 | 0 | 0 | 10/03/18 JRT | SAS |
| J8337-FS-D(7) | 1666.667 | KB33 | SIS | 1 | 49 | 0 | 0 | 10/03/18 JRT | SAS |
| J8337-FS-D(9) | 170.068 | KB33 | SIS | 1 | 40 | 0 | 0 | 10/09/18 LMG | SAS |
| J8337-FS-D(11) | 12.5 | KB33 | SIS | 1 | 49 | 0 | 0 | 10/15/18 LMG | SAS |
| J8337-FS-D(13) | 50 | KB72 | SIS | 1 | 49 | 0 | 0 | 10/17/18 LMG | SAS |

Syringes/Pipettes Used:

| Std ID | Type | Syr/Pip |
|---|---|---|
| KB33 | Pipette | B814659662 |
| KB34 | Pipette | B814659662 |
| KB72 | Pipette | B814659662 |
| KC03 | Pipette | B814659662 |

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| CR884PB-FS | 0 | -- | 9/28/2018 2:48:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 LMG |
| CR885LCS-FS | 0 | -- | 9/28/2018 2:48:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 LMG |
| J8285-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8285-FS | 2 | C | 10/3/2018 4:10:00 PM | J8285-FS | 0 | 1000 | 900 | 1.111 | 1.111 | 10/03/18 JRT |
| J8285-FS-D | 3 | C | 10/3/2018 4:10:00 PM | J8285-FS | 0 | 1000 | 100 | 10.000 | 10.000 | 10/03/18 JRT |
| J8285-FS | 4 | -- | 10/3/2018 4:48:00 PM | J8285-FS | 2 | 900 | 860 | 1.047 | 1.163 | 10/03/18 JRT |
| J8285-FS-D | 5 | C | 10/3/2018 4:48:00 PM | J8285-FS | 2 | 900 | 40 | 22.500 | 25.000 | 10/03/18 JRT |
| J8285-FS-D | 6 | -- | 10/3/2018 4:48:00 PM | J8285-FS-D | 3 | 1000 | 960 | 1.042 | 10.417 | 10/03/18 JRT |
| J8285-FS-D | 7 | -- | 10/3/2018 4:48:00 PM | J8285-FS-D | 3 | 1000 | 40 | 25.000 | 250.000 | 10/03/18 JRT |
| J8285-FS-D | 8 | -- | 10/3/2018 4:56:00 PM | J8285-FS-D | 5 | 1000 | 500 | 2.000 | 50.000 | 10/03/18 JRT |
| J8285-FS-D | 9 | -- | 10/3/2018 4:56:00 PM | J8285-FS-D | 5 | 1000 | 500 | 2.000 | 50.000 | 10/03/18 JRT |
| J8286-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8286-FS | 2 | C | 10/3/2018 4:09:00 PM | J8286-FS | 0 | 1000 | 800 | 1.250 | 1.250 | 10/03/18 JRT |
| J8286-FS-D | 3 | -- | 10/3/2018 4:09:00 PM | J8286-FS | 0 | 1000 | 200 | 5.000 | 5.000 | 10/03/18 JRT |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8286-FS | 4 | C | 10/3/2018 5:00:00 PM | J8286-FS | 2 | 800 | 760 | 1.053 | 1.316 | 10/03/18 JRT |
| J8286-FS-D | 5 | C | 10/3/2018 5:00:00 PM | J8286-FS | 2 | 800 | 40 | 20.000 | 25.000 | 10/03/18 JRT |
| J8286-FS | 6 | -- | 10/3/2018 5:01:00 PM | J8286-FS | 4 | 760 | 740 | 1.027 | 1.351 | 10/03/18 JRT |
| J8286-FS-D | 7 | -- | 10/3/2018 5:01:00 PM | J8286-FS | 4 | 760 | 20 | 38.000 | 50.000 | 10/03/18 JRT |
| J8286-FS-D | 8 | -- | 10/3/2018 5:10:00 PM | J8286-FS-D | 5 | 1000 | 900 | 1.111 | 27.778 | 10/03/18 JRT |
| J8286-FS-D | 9 | C | 10/3/2018 5:10:00 PM | J8286-FS-D | 5 | 1000 | 100 | 10.000 | 250.000 | 10/03/18 JRT |
| J8286-FS-D | 10 | -- | 10/9/2018 8:31:00 AM | J8286-FS-D | 9 | 1000 | 800 | 1.250 | 312.500 | 10/09/18 LMG |
| J8286-FS-D | 11 | -- | 10/9/2018 8:31:00 AM | J8286-FS-D | 9 | 1000 | 200 | 5.000 | 1250.000 | 10/09/18 LMG |
| J8287-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8287-FS | 2 | C | 10/3/2018 4:09:00 PM | J8287-FS | 0 | 1000 | 800 | 1.250 | 1.250 | 10/03/18 JRT |
| J8287-FS-D | 3 | -- | 10/3/2018 4:09:00 PM | J8287-FS | 0 | 1000 | 200 | 5.000 | 5.000 | 10/03/18 JRT |
| J8287-FS | 4 | -- | 10/3/2018 5:10:00 PM | J8287-FS | 2 | 800 | 720 | 1.111 | 1.389 | 10/03/18 JRT |
| J8287-FS-D | 5 | C | 10/3/2018 5:10:00 PM | J8287-FS | 2 | 800 | 80 | 10.000 | 12.500 | 10/03/18 JRT |
| J8287-FS-D | 6 | -- | 10/3/2018 5:58:00 PM | J8287-FS-D | 5 | 1000 | 800 | 1.250 | 15.625 | 10/03/18 JRT |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8287-FS-D | 7 | C | 10/3/2018 5:58:00 PM | J8287-FS-D | 5 | 1000 | 200 | 5.000 | 62.500 | 10/03/18 JRT |
| J8287-FS-D | 8 | -- | 10/9/2018 8:31:00 AM | J8287-FS-D | 7 | 1000 | 800 | 1.250 | 78.125 | 10/09/18 LMG |
| J8287-FS-D | 9 | -- | 10/9/2018 8:31:00 AM | J8287-FS-D | 7 | 1000 | 200 | 5.000 | 312.500 | 10/09/18 LMG |
| J8288-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8288-FS | 2 | -- | 10/3/2018 4:09:00 PM | J8288-FS | 0 | 1000 | 800 | 1.250 | 1.250 | 10/03/18 JRT |
| J8288-FS-D | 3 | -- | 10/3/2018 4:09:00 PM | J8288-FS | 0 | 1000 | 200 | 5.000 | 5.000 | 10/03/18 JRT |
| J8289-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8289-FS | 2 | C | 10/3/2018 4:14:00 PM | J8289-FS | 0 | 1000 | 960 | 1.042 | 1.042 | 10/03/18 JRT |
| J8289-FS-D | 3 | -- | 10/3/2018 4:14:00 PM | J8289-FS | 0 | 1000 | 40 | 25.000 | 25.000 | 10/03/18 JRT |
| J8289-FS | 4 | -- | 10/9/2018 3:21:00 PM | J8289-FS | 2 | 960 | 760 | 1.263 | 1.316 | 10/09/18 LMG |
| J8289-FS-D | 5 | -- | 10/9/2018 3:21:00 PM | J8289-FS | 2 | 960 | 200 | 4.800 | 5.000 | 10/09/18 LMG |
| J8290-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8290-FS | 2 | C | 10/3/2018 4:09:00 PM | J8290-FS | 0 | 1000 | 800 | 1.250 | 1.250 | 10/03/18 JRT |
| J8290-FS-D | 3 | -- | 10/3/2018 4:09:00 PM | J8290-FS | 0 | 1000 | 200 | 5.000 | 5.000 | 10/03/18 JRT |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8290-FS | 4 | -- | 10/3/2018 5:11:00 PM | J8290-FS | 2 | 800 | 780 | 1.026 | 1.282 | 10/03/18 JRT |
| J8290-FS-D | 5 | -- | 10/3/2018 5:11:00 PM | J8290-FS | 2 | 800 | 20 | 40.000 | 50.000 | 10/03/18 JRT |
| J8308-FS | 0 | -- | 9/28/2018 2:48:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 LMG |
| J8309-FS | 0 | -- | 9/28/2018 2:48:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 LMG |
| J8319-FS | 0 | C | 9/28/2018 4:50:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8319-FS | 2 | C | 10/3/2018 4:10:00 PM | J8319-FS | 0 | 1000 | 900 | 1.111 | 1.111 | 10/03/18 JRT |
| J8319-FS-D | 3 | -- | 10/3/2018 4:10:00 PM | J8319-FS | 0 | 1000 | 100 | 10.000 | 10.000 | 10/03/18 JRT |
| J8319-FS | 4 | -- | 10/3/2018 5:12:00 PM | J8319-FS | 2 | 900 | 880 | 1.023 | 1.136 | 10/03/18 JRT |
| J8319-FS-D | 5 | C | 10/3/2018 5:12:00 PM | J8319-FS | 2 | 900 | 20 | 45.000 | 50.000 | 10/03/18 JRT |
| J8319-FS-D | 6 | -- | 10/3/2018 5:58:00 PM | J8319-FS-D | 5 | 1000 | 500 | 2.000 | 100.000 | 10/03/18 JRT |
| J8319-FS-D | 7 | C | 10/3/2018 5:58:00 PM | J8319-FS-D | 5 | 1000 | 500 | 2.000 | 100.000 | 10/03/18 JRT |
| J8319-FS-D | 8 | -- | 10/3/2018 6:28:00 PM | J8319-FS-D | 7 | 1000 | 600 | 1.667 | 166.667 | 10/03/18 JRT |
| J8319-FS-D | 9 | C | 10/3/2018 6:28:00 PM | J8319-FS-D | 7 | 1000 | 400 | 2.500 | 250.000 | 10/03/18 JRT |
| J8319-FS-D | 10 | -- | 10/9/2018 8:31:00 AM | J8319-FS-D | 9 | 1000 | 800 | 1.250 | 312.500 | 10/09/18 LMG |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8319-FS-D | 11 | -- | 10/9/2018 8:31:00 AM | J8319-FS-D | 9 | 1000 | 200 | 5.000 | 1250.000 | 10/09/18 LMG |
| J8320-FS | 0 | C | 9/28/2018 4:50:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8320-FS | 2 | C | 10/3/2018 4:16:00 PM | J8320-FS | 0 | 1000 | 920 | 1.087 | 1.087 | 10/03/18 JRT |
| J8320-FS-D | 3 | -- | 10/3/2018 4:16:00 PM | J8320-FS | 0 | 1000 | 80 | 12.500 | 12.500 | 10/03/18 JRT |
| J8320-FS | 4 | -- | 10/3/2018 5:59:00 PM | J8320-FS | 2 | 920 | 900 | 1.022 | 1.111 | 10/03/18 JRT |
| J8320-FS-D | 5 | C | 10/3/2018 5:59:00 PM | J8320-FS | 2 | 920 | 20 | 46.000 | 50.000 | 10/03/18 JRT |
| J8320-FS-D | 6 | -- | 10/3/2018 6:29:00 PM | J8320-FS-D | 5 | 1000 | 500 | 2.000 | 100.000 | 10/03/18 JRT |
| J8320-FS-D | 7 | C | 10/3/2018 6:29:00 PM | J8320-FS-D | 5 | 1000 | 500 | 2.000 | 100.000 | 10/03/18 JRT |
| J8320-FS-D | 8 | -- | 10/3/2018 6:34:00 PM | J8320-FS-D | 7 | 1000 | 500 | 2.000 | 200.000 | 10/03/18 JRT |
| J8320-FS-D | 9 | C | 10/3/2018 6:34:00 PM | J8320-FS-D | 7 | 1000 | 500 | 2.000 | 200.000 | 10/03/18 JRT |
| J8320-FS-D | 10 | -- | 10/9/2018 8:31:00 AM | J8320-FS-D | 9 | 1000 | 800 | 1.250 | 250.000 | 10/09/18 LMG |
| J8320-FS-D | 11 | -- | 10/9/2018 8:31:00 AM | J8320-FS-D | 9 | 1000 | 200 | 5.000 | 1000.000 | 10/09/18 LMG |
| J8321-FS | 0 | C | 9/28/2018 4:50:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8321-FS | 2 | C | 10/3/2018 4:10:00 PM | J8321-FS | 0 | 1000 | 900 | 1.111 | 1.111 | 10/03/18 JRT |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8321-FS-D | 3 | -- | 10/3/2018 4:10:00 PM | J8321-FS | 0 | 1000 | 100 | 10.000 | 10.000 | 10/03/18 JRT |
| J8321-FS | 4 | -- | 10/3/2018 4:48:00 PM | J8321-FS | 2 | 900 | 860 | 1.047 | 1.163 | 10/03/18 JRT |
| J8321-FS-D | 5 | C | 10/3/2018 4:48:00 PM | J8321-FS | 2 | 900 | 40 | 22.500 | 25.000 | 10/03/18 JRT |
| J8321-FS-D | 6 | -- | 10/3/2018 6:00:00 PM | J8321-FS-D | 5 | 1000 | 500 | 2.000 | 50.000 | 10/03/18 JRT |
| J8321-FS-D | 7 | C | 10/3/2018 6:00:00 PM | J8321-FS-D | 5 | 1000 | 500 | 2.000 | 50.000 | 10/03/18 JRT |
| J8321-FS-D | 8 | -- | 10/3/2018 6:29:00 PM | J8321-FS-D | 7 | 1000 | 600 | 1.667 | 83.333 | 10/03/18 JRT |
| J8321-FS-D | 9 | C | 10/3/2018 6:29:00 PM | J8321-FS-D | 7 | 1000 | 400 | 2.500 | 125.000 | 10/03/18 JRT |
| J8321-FS-D | 10 | -- | 10/9/2018 8:31:00 AM | J8321-FS-D | 9 | 1000 | 800 | 1.250 | 156.250 | 10/09/18 LMG |
| J8321-FS-D | 11 | -- | 10/9/2018 8:31:00 AM | J8321-FS-D | 9 | 1000 | 200 | 5.000 | 625.000 | 10/09/18 LMG |
| J8322-FS | 0 | C | 9/28/2018 4:50:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8322-FS | 2 | -- | 10/3/2018 4:16:00 PM | J8322-FS | 0 | 1000 | 980 | 1.020 | 1.020 | 10/03/18 JRT |
| J8322-FS-D | 3 | C | 10/3/2018 4:16:00 PM | J8322-FS | 0 | 1000 | 20 | 50.000 | 50.000 | 10/03/18 JRT |
| J8322-FS-D | 4 | -- | 10/3/2018 6:00:00 PM | J8322-FS-D | 3 | 1000 | 600 | 1.667 | 83.333 | 10/03/18 JRT |
| J8322-FS-D | 5 | C | 10/3/2018 6:00:00 PM | J8322-FS-D | 3 | 1000 | 400 | 2.500 | 125.000 | 10/03/18 JRT |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8322-FS-D | 6 | -- | 10/3/2018 6:29:00 PM | J8322-FS-D | 5 | 1000 | 700 | 1.429 | 178.571 | 10/03/18 JRT |
| J8322-FS-D | 7 | C | 10/3/2018 6:29:00 PM | J8322-FS-D | 5 | 1000 | 300 | 3.333 | 416.667 | 10/03/18 JRT |
| J8322-FS-D | 8 | -- | 10/9/2018 8:29:00 AM | J8322-FS-D | 7 | 1000 | 900 | 1.111 | 462.963 | 10/09/18 LMG |
| J8322-FS-D | 9 | -- | 10/9/2018 8:29:00 AM | J8322-FS-D | 7 | 1000 | 100 | 10.000 | 4166.667 | 10/09/18 LMG |
| J8323-FS | 0 | -- | 9/28/2018 2:48:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 LMG |
| J8324-FS | 0 | -- | 9/28/2018 2:48:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 LMG |
| J8325MS-FS | 0 | C | 9/28/2018 4:50:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8325MS-FS | 2 | -- | 10/3/2018 4:10:00 PM | J8325MS-FS | 0 | 1000 | 900 | 1.111 | 1.111 | 10/03/18 JRT |
| J8325MS-FS-D | 3 | C | 10/3/2018 4:10:00 PM | J8325MS-FS | 0 | 1000 | 100 | 10.000 | 10.000 | 10/03/18 JRT |
| J8325MS-FS-D | 4 | -- | 10/3/2018 5:20:00 PM | J8325MS-FS-D | 3 | 1000 | 800 | 1.250 | 12.500 | 10/03/18 JRT |
| J8325MS-FS-D | 5 | C | 10/3/2018 5:20:00 PM | J8325MS-FS-D | 3 | 1000 | 200 | 5.000 | 50.000 | 10/03/18 JRT |
| J8325MS-FS-D | 6 | -- | 10/3/2018 6:02:00 PM | J8325MS-FS-D | 5 | 1000 | 600 | 1.667 | 83.333 | 10/03/18 JRT |
| J8325MS-FS-D | 7 | C | 10/3/2018 6:02:00 PM | J8325MS-FS-D | 5 | 1000 | 400 | 2.500 | 125.000 | 10/03/18 JRT |
| J8325MS-FS-D | 8 | -- | 10/9/2018 8:31:00 AM | J8325MS-FS-D | 7 | 1000 | 800 | 1.250 | 156.250 | 10/09/18 LMG |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8325MS-FS-D | 9 | -- | 10/9/2018 8:31:00 AM | J8325MS-FS-D | 7 | 1000 | 200 | 5.000 | 625.000 | 10/09/18 LMG |
| J8326MSD-FS | 0 | C | 9/28/2018 4:50:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8326MSD-FS | 2 | -- | 10/3/2018 4:10:00 PM | J8326MSD-FS | 0 | 1000 | 900 | 1.111 | 1.111 | 10/03/18 JRT |
| J8326MSD-FS-D | 3 | C | 10/3/2018 4:10:00 PM | J8326MSD-FS | 0 | 1000 | 100 | 10.000 | 10.000 | 10/03/18 JRT |
| J8326MSD-FS-D | 4 | -- | 10/3/2018 5:20:00 PM | J8326MSD-FS-D | 3 | 1000 | 800 | 1.250 | 12.500 | 10/03/18 JRT |
| J8326MSD-FS-D | 5 | C | 10/3/2018 5:20:00 PM | J8326MSD-FS-D | 3 | 1000 | 200 | 5.000 | 50.000 | 10/03/18 JRT |
| J8326MSD-FS-D | 6 | -- | 10/3/2018 6:02:00 PM | J8326MSD-FS-D | 5 | 1000 | 600 | 1.667 | 83.333 | 10/03/18 JRT |
| J8326MSD-FS-D | 7 | C | 10/3/2018 6:02:00 PM | J8326MSD-FS-D | 5 | 1000 | 400 | 2.500 | 125.000 | 10/03/18 JRT |
| J8326MSD-FS-D | 8 | -- | 10/9/2018 8:31:00 AM | J8326MSD-FS-D | 7 | 1000 | 800 | 1.250 | 156.250 | 10/09/18 LMG |
| J8326MSD-FS-D | 9 | -- | 10/9/2018 8:31:00 AM | J8326MSD-FS-D | 7 | 1000 | 200 | 5.000 | 625.000 | 10/09/18 LMG |
| J8330-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8330-FS | 2 | -- | 10/3/2018 4:10:00 PM | J8330-FS | 0 | 1000 | 960 | 1.042 | 1.042 | 10/03/18 JRT |
| J8330-FS-D | 3 | C | 10/3/2018 4:10:00 PM | J8330-FS | 0 | 1000 | 40 | 25.000 | 25.000 | 10/03/18 JRT |
| J8330-FS-D | 4 | -- | 10/3/2018 5:19:00 PM | J8330-FS-D | 3 | 1000 | 800 | 1.250 | 31.250 | 10/03/18 JRT |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8330-FS-D | 5 | C | 10/3/2018 5:19:00 PM | J8330-FS-D | 3 | 1000 | 200 | 5.000 | 125.000 | 10/03/18 JRT |
| J8330-FS-D | 6 | -- | 10/3/2018 6:01:00 PM | J8330-FS-D | 5 | 1000 | 700 | 1.429 | 178.571 | 10/03/18 JRT |
| J8330-FS-D | 7 | -- | 10/3/2018 6:01:00 PM | J8330-FS-D | 5 | 1000 | 300 | 3.333 | 416.667 | 10/03/18 JRT |
| J8331-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8331-FS | 2 | -- | 10/3/2018 4:10:00 PM | J8331-FS | 0 | 1000 | 900 | 1.111 | 1.111 | 10/03/18 JRT |
| J8331-FS-D | 3 | C | 10/3/2018 4:10:00 PM | J8331-FS | 0 | 1000 | 100 | 10.000 | 10.000 | 10/03/18 JRT |
| J8331-FS-D | 4 | -- | 10/3/2018 5:20:00 PM | J8331-FS-D | 3 | 1000 | 900 | 1.111 | 11.111 | 10/03/18 JRT |
| J8331-FS-D | 5 | C | 10/3/2018 5:20:00 PM | J8331-FS-D | 3 | 1000 | 100 | 10.000 | 100.000 | 10/03/18 JRT |
| J8331-FS-D | 6 | -- | 10/3/2018 6:02:00 PM | J8331-FS-D | 5 | 1000 | 600 | 1.667 | 166.667 | 10/03/18 JRT |
| J8331-FS-D | 7 | -- | 10/3/2018 6:02:00 PM | J8331-FS-D | 5 | 1000 | 400 | 2.500 | 250.000 | 10/03/18 JRT |
| J8337-FS | 0 | C | 9/28/2018 2:51:00 PM | NA | | NA | NA | 1.000 | 1.000 | 09/28/18 SAS |
| J8337-FS | 2 | C | 10/3/2018 4:10:00 PM | J8337-FS | 0 | 1000 | 900 | 1.111 | 1.111 | 10/03/18 JRT |
| J8337-FS-D | 3 | C | 10/3/2018 4:10:00 PM | J8337-FS | 0 | 1000 | 100 | 10.000 | 10.000 | 10/03/18 JRT |
| J8337-FS-D | 4 | -- | 10/3/2018 5:21:00 PM | J8337-FS-D | 3 | 1000 | 700 | 1.429 | 14.286 | 10/03/18 JRT |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Extract | | * | Extract Date | Source | | Initial Extract Vol (uL) | Extract Split | Extract Split | Total Dilution | Date/Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| Name | # | | | Name | # | | | | | |
| J8337-FS-D | 5 | C | 10/3/2018 5:21:00 PM | J8337-FS-D | 3 | 1000 | 300 | 3.333 | 33.333 | 10/03/18 JRT |
| J8337-FS-D | 6 | C | 10/3/2018 6:03:00 PM | J8337-FS-D | 5 | 1000 | 980 | 1.020 | 34.014 | 10/03/18 JRT |
| J8337-FS-D | 7 | -- | 10/3/2018 6:03:00 PM | J8337-FS-D | 5 | 1000 | 20 | 50.000 | 1666.667 | 10/03/18 JRT |
| J8337-FS-D | 8 | -- | 10/9/2018 8:31:00 AM | J8337-FS-D | 6 | 1000 | 800 | 1.250 | 42.517 | 10/09/18 LMG |
| J8337-FS-D | 9 | -- | 10/9/2018 8:31:00 AM | J8337-FS-D | 6 | 1000 | 200 | 5.000 | 170.068 | 10/09/18 LMG |
| J8337-FS | 10 | C | 10/15/2018 1:07:00 PM | J8337-FS | 2 | 900 | 820 | 1.098 | 1.220 | 10/15/18 LMG |
| J8337-FS-D | 11 | -- | 10/15/2018 1:07:00 PM | J8337-FS | 2 | 900 | 80 | 11.250 | 12.500 | 10/15/18 LMG |
| J8337-FS | 12 | -- | 10/17/2018 1:23:00 PM | J8337-FS | 10 | 820 | 800 | 1.025 | 1.250 | 10/17/18 LMG |
| J8337-FS-D | 13 | -- | 10/17/2018 1:23:00 PM | J8337-FS | 10 | 820 | 20 | 41.000 | 50.000 | 10/17/18 LMG |

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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# BATTELLE - NORWELL OPERATIONS
## EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| | | | |
|---|---|---|---|
| **Purpose:** | LC-MS/MS TRANSFER | **Last Activity:** | Prep->Inst |
| **Relinquished On/By:** | Oct 4 2018 6:59PM DMS | **Received On/By:** | Oct 4 2018 6:59PM 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 | CR884PB-FS(0) | 1000 | 1 | Intact | NA |
| 2 | CR885LCS-FS(0) | 1000 | 1 | Intact | NA |
| 3 | J8285-FS(0) | 1000 | 1 | Intact | NA |
| 4 | J8285-FS-D(3) | 1000 | 10 | Intact | NA |
| 5 | J8285-FS-D(5) | 1000 | 25 | Intact | NA |
| 6 | J8285-FS-D(7) | 1000 | 250 | Intact | NA |
| 7 | J8285-FS-D(9) | 1000 | 50 | Intact | NA |
| 8 | J8286-FS(0) | 1000 | 1 | Intact | NA |
| 9 | J8286-FS-D(3) | 1000 | 5 | Intact | NA |
| 10 | J8286-FS-D(5) | 1000 | 25 | Intact | NA |
| 11 | J8286-FS-D(7) | 1000 | 50 | Intact | NA |
| 12 | J8286-FS-D(9) | 1000 | 250 | Intact | NA |
| 13 | J8287-FS(0) | 1000 | 1 | Intact | NA |
| 14 | J8287-FS-D(3) | 1000 | 5 | Intact | NA |
| 15 | J8287-FS-D(5) | 1000 | 12.5 | Intact | NA |
| 16 | J8287-FS-D(7) | 1000 | 62.5 | Intact | NA |
| 17 | J8288-FS(0) | 1000 | 1 | Intact | NA |
| 18 | J8288-FS-D(3) | 1000 | 5 | Intact | NA |
| 19 | J8289-FS(0) | 1000 | 1 | Intact | NA |
| 20 | J8289-FS-D(3) | 1000 | 25 | Intact | NA |
| 21 | J8290-FS(0) | 1000 | 1 | Intact | NA |
| 22 | J8290-FS-D(3) | 1000 | 5 | Intact | NA |
| 23 | J8290-FS-D(5) | 1000 | 50 | Intact | NA |
| 24 | J8308-FS(0) | 1000 | 1 | Intact | NA |
| 25 | J8309-FS(0) | 1000 | 1 | Intact | NA |
| 26 | J8319-FS(0) | 1000 | 1 | Intact | NA |
| 27 | J8319-FS-D(3) | 1000 | 10 | Intact | NA |
| 28 | J8319-FS-D(5) | 1000 | 50 | Intact | NA |

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# BATTELLE - NORWELL OPERATIONS
## EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| | | | | | |
|---|---|---|---|---|---|
| 29 | J8319-FS-D(7) | 1000 | 100 | Intact | NA |
| 30 | J8319-FS-D(9) | 1000 | 250 | Intact | NA |
| 31 | J8320-FS(0) | 1000 | 1 | Intact | NA |
| 32 | J8320-FS-D(3) | 1000 | 12.5 | Intact | NA |
| 33 | J8320-FS-D(5) | 1000 | 50 | Intact | NA |
| 34 | J8320-FS-D(7) | 1000 | 100 | Intact | NA |
| 35 | J8320-FS-D(9) | 1000 | 200 | Intact | NA |
| 36 | J8321-FS(0) | 1000 | 1 | Intact | NA |
| 37 | J8321-FS-D(3) | 1000 | 10 | Intact | NA |
| 38 | J8321-FS-D(5) | 1000 | 25 | Intact | NA |
| 39 | J8321-FS-D(7) | 1000 | 50 | Intact | NA |
| 40 | J8321-FS-D(9) | 1000 | 125 | Intact | NA |
| 41 | J8322-FS(0) | 1000 | 1 | Intact | NA |
| 42 | J8322-FS-D(3) | 1000 | 50 | Intact | NA |
| 43 | J8322-FS-D(5) | 1000 | 125 | Intact | NA |
| 44 | J8322-FS-D(7) | 1000 | 416.667 | Intact | NA |
| 45 | J8323-FS(0) | 1000 | 1 | Intact | NA |
| 46 | J8324-FS(0) | 1000 | 1 | Intact | NA |
| 47 | J8325MS-FS(0) | 1000 | 1 | Intact | NA |
| 48 | J8325MS-FS-D(3) | 1000 | 10 | Intact | NA |
| 49 | J8325MS-FS-D(5) | 1000 | 50 | Intact | NA |
| 50 | J8325MS-FS-D(7) | 1000 | 125 | Intact | NA |
| 51 | J8326MSD-FS(0) | 1000 | 1 | Intact | NA |
| 52 | J8326MSD-FS-D(3) | 1000 | 10 | Intact | NA |
| 53 | J8326MSD-FS-D(5) | 1000 | 50 | Intact | NA |
| 54 | J8326MSD-FS-D(7) | 1000 | 125 | Intact | NA |
| 55 | J8330-FS(0) | 1000 | 1 | Intact | NA |
| 56 | J8330-FS-D(3) | 1000 | 25 | Intact | NA |
| 57 | J8330-FS-D(5) | 1000 | 125 | Intact | NA |
| 58 | J8330-FS-D(7) | 1000 | 416.667 | Intact | NA |
| 59 | J8331-FS(0) | 1000 | 1 | Intact | NA |
| 60 | J8331-FS-D(3) | 1000 | 10 | Intact | NA |
| 61 | J8331-FS-D(5) | 1000 | 100 | Intact | NA |
| 62 | J8331-FS-D(7) | 1000 | 250 | Intact | NA |
| 63 | J8337-FS(0) | 1000 | 1 | Intact | NA |
| 64 | J8337-FS-D(3) | 1000 | 10 | Intact | NA |
| 65 | J8337-FS-D(5) | 1000 | 33.333 | Intact | NA |
| 66 | J8337-FS-D(7) | 1000 | 1666.667 | Intact | NA |

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# BATTELLE - NORWELL OPERATIONS
## EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

**Total Extracts:** 66

**Purpose:** LC-MS/MS TRANSFER
**Last Activity:** Prep->Inst

**Relinquished On/By:** Oct 9 2018 9:33AM LMG
**Relinquished From:** Sample Preparation: NA
**Relinquish Comment:** NA

**Received On/By:** Oct 9 2018 9:33AM LMG
**Received Location:** LC Laboratory: NA
**Received Comment:** NA

| No. | BDO-ID: | PIV: | DF: | Condition: | Custody Comment: |
|---|---|---|---|---|---|
| 1 | J8286-FS-D(11) | 1000 | 1250 | Intact | NA |
| 2 | J8287-FS-D(9) | 1000 | 312.5 | Intact | NA |
| 3 | J8319-FS-D(11) | 1000 | 1250 | Intact | NA |
| 4 | J8320-FS-D(11) | 1000 | 1000 | Intact | NA |
| 5 | J8321-FS-D(11) | 1000 | 625 | Intact | NA |
| 6 | J8322-FS-D(9) | 1000 | 4166.667 | Intact | NA |
| 7 | J8325MS-FS-D(9) | 1000 | 625 | Intact | NA |
| 8 | J8326MSD-FS-D(9) | 1000 | 625 | Intact | NA |
| 9 | J8337-FS-D(9) | 1000 | 170.068 | Intact | NA |

**Total Extracts:** 9

**Purpose:** LC-MS/MS TRANSFER
**Last Activity:** Prep->Inst

**Relinquished On/By:** Oct 9 2018 3:30PM LMG
**Relinquished From:** Sample Preparation: NA
**Relinquish Comment:** NA

**Received On/By:** Oct 9 2018 3:31PM LMG
**Received Location:** LC Laboratory: NA
**Received Comment:** NA

| No. | BDO-ID: | PIV: | DF: | Condition: | Custody Comment: |
|---|---|---|---|---|---|
| 1 | J8289-FS-D(5) | 1000 | 5 | Intact | NA |

**Total Extracts:** 1

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# BATTELLE - NORWELL OPERATIONS
## EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| | | | |
|---|---|---|---|
| **Purpose:** | LC-MS/MS TRANSFER | **Last Activity:** | Prep->Inst |
| **Relinquished On/By:** | Oct 15 2018 1:15PM LMG | **Received On/By:** | Oct 15 2018 2:09PM LMG |
| **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 | J8337-FS-D(11) | 1000 | 12.5 | Intact | NA |

**Total Extracts:** 1

| | | | |
|---|---|---|---|
| **Purpose:** | LC-MS/MS TRANSFER | **Last Activity:** | Prep->Inst |
| **Relinquished On/By:** | Oct 17 2018 1:52PM LMG | **Received On/By:** | Oct 17 2018 1:52PM LMG |
| **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 | J8337-FS-D(13) | 1000 | 50 | Intact | NA |

**Total Extracts:** 1

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# BATTELLE - NORWELL OPERATIONS
## SAMPLE SPECIFIC COMMENTS

**Project Title(s)**
CTO-4164 Naval Base Ventura County, California

**Project No.(s)**
100110125-01

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| Sample ID: | Comment: | Date/Initials: |
|---|---|---|
| CR884PB-FS | Extraction started 2:48pm, extraction block 3, ended at 4:04pm | 09/28/18 SAS |
| CR885LCS-FS | Extraction started 2:48pm, extraction block 3, ended at 4:05pm | 09/28/18 SAS |
| J8285-FS | Extraction started 2:51pm, extraction block 1, ended at 4:37pm | 09/28/18 SAS |
| J8286-FS | Extraction started 2:51pm, extraction block 2, ended at 3:34pm | 09/28/18 SAS |
| J8287-FS | Extraction started 2:51pm, extraction block 1, ended at 4:40pm | 09/28/18 SAS |
| J8288-FS | Extraction started 2:51pm, extraction block 1, ended at 3:57pm | 09/28/18 SAS |
| J8289-FS | Extraction started 2:51pm, extraction block 1, ended at 4:30pm | 09/28/18 SAS |
| J8290-FS | Extraction started 2:51pm, extraction block 1, ended at 4:33pm | 09/28/18 SAS |
| J8308-FS | Extraction started 2:48pm, extraction block 3, ended at 3:58pm | 09/28/18 SAS |
| J8309-FS | Extraction started 2:48pm, extraction block 3, ended at 3:57pm | 09/28/18 SAS |
| J8319-FS | Extraction started 4:50pm, extraction block 2, ended at 4:54pm | 09/28/18 SAS |
| J8320-FS | Extraction started 4:50pm, extraction block 2, ended at 4:54pm | 09/28/18 SAS |
| J8321-FS | Extraction started 4:50pm, extraction block 2, ended at 4:54pm | 09/28/18 SAS |
| J8322-FS | Extraction started 4:50pm, extraction block 2, ended at 4:54pm | 09/28/18 SAS |
| J8323-FS | Extraction started 2:48pm, extraction block 3, ended at 3:56pm | 09/28/18 SAS |
| J8324-FS | Extraction started 2:48pm, extraction block 3, ended at 3:46pm | 09/28/18 SAS |
| J8325MS-FS | Extraction started 4:50pm, extraction block 2, ended at 4:54pm | 09/28/18 SAS |
| J8326MSD-FS | Extraction started 4:50pm, extraction block 2, ended at 4:54pm | 09/28/18 SAS |
| J8330-FS | Extraction started 2:51pm, extraction block 2, ended at 3:15pm | 09/28/18 SAS |
| J8331-FS | Extraction started 2:51pm, extraction block 2, ended at 3:18pm | 09/28/18 SAS |
| J8337-FS | Extraction started 2:51pm, extraction block 2, ended at 3:16pm | 09/28/18 SAS |

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It can be done

# BATTELLE - NORWELL OPERATIONS
## MISCELLANEOUS DOCUMENTATION FORM

| **Project Title(s)** | **Project No.(s)** |
|---|---|
| CTO-4164 Naval Base Ventura County, California | 100110125-01 |

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| | | | |
|---|---|---|---|
| **Entered By:** | Lauren Griffith | **On:** | 09/26/2018 |

For pre-screening by direct inject, extracts were prepared as follows:
For each sample, 450 uL of methanol (180913-07) was pipetted (B820865811) into eppendorf tubes, followed by 50 uL of KB33 (pipette B814659662).
Samples were mixed by shaking well several times; then were centrifuged at 2500rpm for 5 minutes.
A 500 uL aliquot (pipette B1100330B) of each was transferred to one of the eppendorf tubes containing spiked methanol. The tubes were then capped and vortexed to mix. An aliquot of direct inject extract was then transferred to an autosampler vial and submitted for analysis.

| | | | |
|---|---|---|---|
| **Task Leader Approval:** | Lauren Griffith | **On:** | 09/28/2018 |
| **SupervisorApproval:** | Denise Schumitz | **On:** | 10/23/2018 |
| **PM Approval:** | Jonathan Thorn | **On:** | 10/23/2018 |

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It can be done

# BATTELLE - NORWELL OPERATIONS
## MISCELLANEOUS DOCUMENTATION FORM

| **Project Title(s)** | **Project No.(s)** |
|---|---|
| CTO-4164 Naval Base Ventura County, California | 100110125-01 |

**18-0580**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

| | | | |
|---|---|---|---|
| **Task Leader Approval:** | Lauren Griffith | **On:** | 09/28/2018 |
| **SupervisorApproval:** | Denise Schumitz | **On:** | 10/23/2018 |
| **PM Approval:** | Jonathan Thorn | **On:** | 10/23/2018 |

# Analytical Calibrations

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 4:19:28 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| 2 | KB73 | L1 | 10/5/2018 10:28:31 AM | 5-0369.dam | 18-0568B.wiff |
| 3 | KB74 | L2 | 10/5/2018 10:39:24 AM | 5-0369.dam | 18-0568B.wiff |
| 4 | KB75 | L3 | 10/5/2018 10:50:18 AM | 5-0369.dam | 18-0568B.wiff |
| 5 | KB76 | L4 | 10/5/2018 11:01:11 AM | 5-0369.dam | 18-0568B.wiff |
| 6 | KB77 | L5 | 10/5/2018 11:12:02 AM | 5-0369.dam | 18-0568B.wiff |
| 7 | KB78 | L6 | 10/5/2018 11:22:53 AM | 5-0369.dam | 18-0568B.wiff |
| 8 | KB79 | L7 | 10/5/2018 11:33:45 AM | 5-0369.dam | 18-0568B.wiff |
| 9 | KB80 IB | Instrument Blank | 10/5/2018 11:44:37 AM | 5-0369.dam | 18-0568B.wiff |
| 10 | KB81 ICC | ICC | 10/5/2018 11:55:29 AM | 5-0369.dam | 18-0568B.wiff |
| 11 | KB89 BRANCH | Branch Standard | 10/5/2018 12:06:21 PM | 5-0369.dam | 18-0568B.wiff |

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 4:24:05 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| 22 | KB77 CCV | CCV | 10/5/2018 9:28:17 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 23 | MeOH | | 10/5/2018 9:39:08 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 24 | CR884PB-FS(0) | Procedural Blank | 10/5/2018 9:50:00 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 25 | CR885LCS-FS(0) | Laboratory Control Sample | 10/5/2018 10:00:52 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 26 | J8308-FS(0) | VC-SO-FB04-092118 | 10/5/2018 10:11:44 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 27 | J8324-FS(0) | VC-AQ-EB03-092018 | 10/5/2018 10:22:35 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 28 | J8323-FS(0) | VC-AQ-FB03-092018 | 10/5/2018 10:33:27 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 29 | J8285-FS(0) | VC-CS94-DW01-0918 | 10/5/2018 10:44:19 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 30 | J8285-FS-D(3) | VC-CS94-DW01-0918 | 10/5/2018 10:55:11 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 31 | J8285-FS-D(5) | VC-CS94-DW01-0918 | 10/5/2018 11:06:04 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 32 | J8285-FS-D(7) | VC-CS94-DW01-0918 | 10/5/2018 11:16:56 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 33 | J8285-FS-D(9) | VC-CS94-DW01-0918 | 10/5/2018 11:27:48 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 34 | KB76 CCV | CCV | 10/5/2018 11:38:40 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 35 | MeOH | | 10/5/2018 11:49:33 PM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 36 | J8309-FS(0) | VC-SO-EB04-092118 | 10/6/2018 12:00:23 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 37 | J8319-FS(0) | VC-PM323-324-DW01-0918 | 10/6/2018 12:11:14 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 38 | J8319-FS-D(3) | VC-PM323-324-DW01-0918 | 10/6/2018 12:22:07 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 39 | J8319-FS-D(5) | VC-PM323-324-DW01-0918 | 10/6/2018 12:32:59 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 40 | ~~J8319-FS-D(7)~~ | VC-PM323-324-DW01-0918 | 10/6/2018 12:43:51 AM | ~~5-0369.dam~~ | ~~18_0600_18-0580.wiff~~ | (1) |
| 41 | J8319-FS-D(9) | VC-PM323-324-DW01-0918 | 10/6/2018 12:54:43 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 42 | J8287-FS(0) | VC-CS94-DW02-0918 | 10/6/2018 1:05:34 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 43 | J8287-FS-D(3) | VC-CS94-DW02-0918 | 10/6/2018 1:16:26 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 44 | ~~J8287-FS-D(5)~~ | ~~VC-CS94-DW02-0918~~ | 10/6/2018 1:27:17 AM | ~~5-0369.dam~~ | ~~18_0600_18-0580.wiff~~ | (1) |
| 45 | J8287-FS-D(7) | VC-CS94-DW02-0918 | 10/6/2018 1:38:08 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 46 | KB77 CCV | CCV | 10/6/2018 1:49:00 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 47 | MeOH | | 10/6/2018 1:59:52 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 48 | J8290-FS(0) | VC-CS94-DW05-0918 | 10/6/2018 2:10:45 | 5-0369.dam | 18_0600_18-0580.wiff | |

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Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 4:24:05 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| | | | AM | | | |
| 49 | J8290-FS-D(3) | VC-CS94-DW05-0918 | 10/6/2018 2:21:37 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 50 | J8290-FS-D(5) | VC-CS94-DW05-0918 | 10/6/2018 2:32:29 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 51 | J8288-FS(0) | VC-CS94-DW03-0918 | 10/6/2018 2:43:21 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 52 | J8288-FS-D(3) | VC-CS94-DW03-0918 | 10/6/2018 2:54:13 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 53 | J8286-FS(0) | VC-CS94-DW01P-0918 | 10/6/2018 3:05:04 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 54 | J8286-FS-D(3) | VC-CS94-DW01P-0918 | 10/6/2018 3:15:56 AM | 5-0369.dam | 18_0600_18-0580.wiff | |
| 1 | J8286-FS-D(5) | VC-CS94-DW01P-0918 | 10/6/2018 3:26:49 AM | 5-0369.dam | 18-0580.wiff | |
| 2 | J8286-FS-D(7) | VC-CS94-DW01P-0918 | 10/6/2018 3:37:41 AM | 5-0369.dam | 18-0580.wiff | |
| 3 | J8286-FS-D(9) | VC-CS94-DW01P-0918 | 10/6/2018 3:48:34 AM | 5-0369.dam | 18-0580.wiff | |
| 4 | KB76 CCV | CCV | 10/6/2018 3:59:26 AM | 5-0369.dam | 18-0580.wiff | |
| 5 | MeOH | | 10/6/2018 4:10:19 AM | 5-0369.dam | 18-0580.wiff | |
| 6 | J8320-FS(0)) | VC-PM323-324-DW01P-0918 | 10/6/2018 4:21:11 AM | 5-0369.dam | 18-0580.wiff | |
| 7 | J8320-FS-D(3) | VC-PM323-324-DW01P-0918 | 10/6/2018 4:32:03 AM | 5-0369.dam | 18-0580.wiff | |
| 8 | J8320-FS-D(5) | VC-PM323-324-DW01P-0918 | 10/6/2018 4:42:55 AM | 5-0369.dam | 18-0580.wiff | |
| 9 | ~~J8320-FS-D(7)~~ | VC-PM323-324-DW01P-0918 | 10/6/2018 4:53:47 AM | ~~5-0369.dam~~ | ~~18-0580.wiff~~ | (1) |
| 10 | ~~J8320-FS-D(9)~~ | VC-PM323-324-DW01P-0918 | 10/6/2018 5:04:40 AM | ~~5-0369.dam~~ | ~~18-0580.wiff~~ | (1) |
| 11 | J8337-FS(0) | VC-PM324-DW02-0918 | 10/6/2018 5:15:33 AM | 5-0369.dam | 18-0580.wiff | |
| 12 | J8337-FS-D(3) | VC-PM324-DW02-0918 | 10/6/2018 5:26:26 AM | 5-0369.dam | 18-0580.wiff | |
| 13 | J8337-FS-D(5) | VC-PM324-DW02-0918 | 10/6/2018 5:37:18 AM | 5-0369.dam | 18-0580.wiff | |
| 14 | J8337-FS-D(7) | VC-PM324-DW02-0918 | 10/6/2018 5:48:10 AM | 5-0369.dam | 18-0580.wiff | |
| 15 | KB77 CCV | CCV | 10/6/2018 5:59:02 AM | 5-0369.dam | 18-0580.wiff | |
| 16 | MeOH | | 10/6/2018 6:09:54 AM | 5-0369.dam | 18-0580.wiff | |
| 17 | J8321-FS(0) | VC-PM323-324-DW02-0918 | 10/6/2018 6:20:46 AM | 5-0369.dam | 18-0580.wiff | |
| 18 | J8321-FS-D(3) | VC-PM323-324-DW02-0918 | 10/6/2018 6:31:38 AM | 5-0369.dam | 18-0580.wiff | |
| 19 | J8321-FS-D(5) | VC-PM323-324-DW02-0918 | 10/6/2018 6:42:30 AM | 5-0369.dam | 18-0580.wiff | |
| 20 | J8321-FS-D(7) | VC-PM323-324-DW02-0918 | 10/6/2018 6:53:23 AM | 5-0369.dam | 18-0580.wiff | |

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 4:24:05 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| 21 | J8321-FS-D(9) | VC-PM323-324-DW02-0918 | 10/6/2018 7:04:15 AM | 5-0369.dam | 18-0580.wiff | |
| 22 | J8289-FS(0) | VC-CS94-DW04-0918 | 10/6/2018 7:15:08 AM | 5-0369.dam | 18-0580.wiff | |
| 23 | J8289-FS-D(3) | VC-CS94-DW04-0918 | 10/6/2018 7:26:01 AM | 5-0369.dam | 18-0580.wiff | |
| 24 | KB76 CCV | CCV | 10/6/2018 7:36:54 AM | 5-0369.dam | 18-0580.wiff | |
| 25 | MeOH | | 10/6/2018 7:47:46 AM | 5-0369.dam | 18-0580.wiff | |
| 26 | J8330-FS(0) | VC-PM323-DW02-0918 | 10/6/2018 7:58:39 AM | 5-0369.dam | 18-0580.wiff | |
| 27 | J8330-FS-D(3) | VC-PM323-DW02-0918 | 10/6/2018 8:09:29 AM | 5-0369.dam | 18-0580.wiff | |
| 28 | J8330-FS-D(5) | VC-PM323-DW02-0918 | 10/6/2018 8:20:22 AM | 5-0369.dam | 18-0580.wiff | |
| 29 | J8330-FS-D(7) | VC-PM323-DW02-0918 | 10/6/2018 8:31:14 AM | 5-0369.dam | 18-0580.wiff | |
| 30 | J8331-FS(0) | VC-PM323-DW02P-0918 | 10/6/2018 8:42:06 AM | 5-0369.dam | 18-0580.wiff | |
| 31 | ~~J8331-FS-D(3)~~ | ~~VC-PM323-DW02P-0918~~ | ~~10/6/2018 8:52:59 AM~~ | ~~5-0369.dam~~ | ~~18-0580.wiff~~ | (1) |
| 32 | J8331-FS-D(5) | VC-PM323-DW02P-0918 | 10/6/2018 9:03:51 AM | 5-0369.dam | 18-0580.wiff | |
| 33 | J8331-FS-D(7) | VC-PM323-DW02P-0918 | 10/6/2018 9:14:43 AM | 5-0369.dam | 18-0580.wiff | |
| 34 | KB77 CCV | CCV | 10/6/2018 9:25:36 AM | 5-0369.dam | 18-0580.wiff | |
| 35 | MeOH | | 10/6/2018 9:36:29 AM | 5-0369.dam | 18-0580.wiff | |
| 36 | J8325MS-FS(0) | VC-PM323-324-DW02-0918-MS | 10/6/2018 9:47:21 AM | 5-0369.dam | 18-0580.wiff | |
| 37 | J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/6/2018 9:58:14 AM | 5-0369.dam | 18-0580.wiff | |
| 38 | J8325MS-FS-D(5) | VC-PM323-324-DW02-0918-MS | 10/6/2018 10:09:08 AM | 5-0369.dam | 18-0580.wiff | |
| 39 | J8325MS-FS-D(7) | VC-PM323-324-DW02-0918-MS | 10/6/2018 10:20:00 AM | 5-0369.dam | 18-0580.wiff | |
| 40 | J8326MSD-FS(0) | VC-PM323-324-DW02-0918-MSD | 10/6/2018 10:30:53 AM | 5-0369.dam | 18-0580.wiff | |
| 41 | ~~J8326MSD-FS-D(3)~~ | ~~VC-PM323-324-DW02-0918-MSD~~ | ~~10/6/2018 10:41:46 AM~~ | ~~5-0369.dam~~ | ~~18-0580.wiff~~ | (2) |
| 42 | J8326MSD-FS-D(5) | VC-PM323-324-DW02-0918-MSD | 10/6/2018 10:52:40 AM | 5-0369.dam | 18-0580.wiff | |
| 43 | J8326MSD-FS-D(7) | VC-PM323-324-DW02-0918-MSD | 10/6/2018 11:03:32 AM | 5-0369.dam | 18-0580.wiff | |
| 44 | KB76 CCV | CCV | 10/6/2018 11:14:26 AM | 5-0369.dam | 18-0580.wiff | |
| 45 | MeOH | | 10/6/2018 11:25:17 AM | 5-0369.dam | 18-0580.wiff | |
| 46 | J8322-FS(0) | VC-PM323-324-DW03-0918 | 10/6/2018 11:36:09 AM | 5-0369.dam | 18-0580.wiff | |
| 47 | ~~J8322-FS-D(3)~~ | ~~VC-PM323-324-~~ | ~~10/6/2018 11:47:01~~ | ~~5-0369.dam~~ | ~~18-0580.wiff~~ | (2) |

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Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 4:24:05 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| | | DW03-0918 | AM | | | |
| 48 | ~~J8322-FS-D(5)~~ | VC-PM323-324-DW03-0918 | 10/6/2018 11:57:54 AM | ~~5-0369.dam~~ | ~~18-0580.wiff~~ | (1) |
| 49 | J8322-FS-D(7) | VC-PM323-324-DW03-0918 | 10/6/2018 12:08:47 PM | 5-0369.dam | 18-0580.wiff | |
| 1 | KB75 CCV | CCV | 10/6/2018 12:30:32 PM | 5-0369.dam | 18-0581_18-0584.wiff | |

(1) Extracts were not needed and were not reported. LMG 10/19/18

(2) Sample was re-aliquoted and reanalyzed due to a bad injection. LMG 10/19/18

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Sequence Report

Created with Analyst Reporter
Printed: 11/10/2018 10:53:58 AM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| 1 | MeOH | | 10/8/2018 3:29:19 PM | 5-0369.dam | 18-0601.wiff |
| 2 | KB73 | L1 | 10/8/2018 3:40:10 PM | 5-0369.dam | 18-0601.wiff |
| 3 | KB74 | L2 | 10/8/2018 3:51:02 PM | 5-0369.dam | 18-0601.wiff |
| 4 | KB75 | L3 | 10/8/2018 4:01:53 PM | 5-0369.dam | 18-0601.wiff |
| 5 | KB76 | L4 | 10/8/2018 4:12:44 PM | 5-0369.dam | 18-0601.wiff |
| 6 | KB77 | L5 | 10/8/2018 4:23:36 PM | 5-0369.dam | 18-0601.wiff |
| 7 | KB78 | L6 | 10/8/2018 4:34:28 PM | 5-0369.dam | 18-0601.wiff |
| 8 | KB79 | L7 | 10/8/2018 4:45:19 PM | 5-0369.dam | 18-0601.wiff |
| 9 | KB80 IB | Instrument Blank | 10/8/2018 4:56:10 PM | 5-0369.dam | 18-0601.wiff |
| 10 | KB81 ICC | ICC | 10/8/2018 5:07:01 PM | 5-0369.dam | 18-0601.wiff |
| 11 | KB89 Branch | Branch Standard | 10/8/2018 5:17:54 PM | 5-0369.dam | 18-0601.wiff |

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Sequence Report

Created with Analyst Reporter
Printed: 12/10/2018 10:51:34 AM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| 1 | KB75 | CCV | 10/10/2018 5:47:38 PM | 5-0369.dam | 10102018.wiff | |
| 3 | MeOH | | 10/10/2018 5:58:31 PM | 5-0369.dam | 10102018.wiff | |
| 1 | KB75 ISC | ISC/CCV | 10/10/2018 6:09:23 PM | 5-0369.dam | 10102018.wiff | |
| 2 | KB80 IB | Instrument Blank | 10/10/2018 6:20:17 PM | 5-0369.dam | 10102018.wiff | |
| 3 | MeOH | | 10/10/2018 6:31:10 PM | 5-0369.dam | 10102018.wiff | |
| 4 | J8310-FS-D(7) | | 10/10/2018 6:42:02 PM | 5-0369.dam | 10102018.wiff | |
| 5 | J8311-FS-D(7) | | 10/10/2018 6:52:54 PM | 5-0369.dam | 10102018.wiff | |
| 6 | J8312-FS-D(9) | | 10/10/2018 7:03:46 PM | 5-0369.dam | 10102018.wiff | |
| 7 | J8313-FS-D(7) | | 10/10/2018 7:14:38 PM | 5-0369.dam | 10102018.wiff | (1) |
| 8 | J8314-FS-D(7) | | 10/10/2018 7:25:29 PM | 5-0369.dam | 10102018.wiff | |
| 9 | J8315-FS-D(7) | | 10/10/2018 7:36:20 PM | 5-0369.dam | 10102018.wiff | |
| 10 | J8316-FS-D(7) | | 10/10/2018 7:47:11 PM | 5-0369.dam | 10102018.wiff | |
| 11 | J8317-FS-D(7) | | 10/10/2018 7:58:04 PM | 5-0369.dam | 10102018.wiff | |
| 12 | KB77 CCV | CCV | 10/10/2018 8:08:55 PM | 5-0369.dam | 10102018.wiff | |
| 13 | MeOH | | 10/10/2018 8:19:48 PM | 5-0369.dam | 10102018.wiff | |
| 14 | J8286-FS-D(11) | VC-CS94-DW01P-0918 | 10/10/2018 8:30:40 PM | 5-0369.dam | 10102018.wiff | |
| 15 | J8287-FS-D(9) | VC-CS94-DW02-0918 | 10/10/2018 8:41:32 PM | 5-0369.dam | 10102018.wiff | |
| 16 | J8319-FS-D(11) | VC-PM323-324-DW01-0918 | 10/10/2018 8:52:24 PM | 5-0369.dam | 10102018.wiff | |
| 17 | J8320-FS-D(11) | VC-PM323-324-DW01P-0918 | 10/10/2018 9:03:15 PM | 5-0369.dam | 10102018.wiff | |
| 18 | J8321-FS-D(11) | VC-PM323-324-DW02-0918 | 10/10/2018 9:14:07 PM | 5-0369.dam | 10102018.wiff | |
| 19 | J8325MS-FS-D(3) | VC-PM323-324-DW02-0918-MS | 10/10/2018 9:24:58 PM | 5-0369.dam | 10102018.wiff | |
| 20 | J8325MS-FS-D(9) | VC-PM323-324-DW02-0918-MS | 10/10/2018 9:35:49 PM | 5-0369.dam | 10102018.wiff | |
| 21 | J8326MSD-FS-D(3) | VC-PM323-324-DW02-0918-MSD | 10/10/2018 9:46:43 PM | 5-0369.dam | 10102018.wiff | |
| 22 | J8326MSD-FS-D(9) | VC-PM323-324-DW02-0918-MSD | 10/10/2018 9:57:34 PM | 5-0369.dam | 10102018.wiff | |
| 23 | MeOH | | 10/10/2018 10:08:26 PM | 5-0369.dam | 10102018.wiff | |
| 24 | KB76 CCV | CCV | 10/10/2018 10:19:19 PM | 5-0369.dam | 10102018.wiff | |
| 25 | J8322-FS-D(5) | VC-PM323-324-DW03-0918 | 10/10/2018 10:30:11 | 5-0369.dam | 10102018.wiff | (2) |

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Sequence Report

Created with Analyst Reporter
Printed: 12/10/2018 10:51:34 AM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| | | | PM | | | |
| 26 | J8322-FS-D(9) | VC-PM323-324-DW03-0918 | 10/10/2018 10:41:02 PM | 5-0369.dam | 10102018.wiff | |
| 27 | ~~J8330-FS-D(5)~~ | ~~VC-PM323-DW02-0918~~ | 10/10/2018 10:51:53 PM | ~~5-0369.dam~~ | ~~10102018.wiff~~ | (2) |
| 28 | J8289-FS-D(5) | VC-CS94-DW04-0918 | 10/10/2018 11:02:44 PM | 5-0369.dam | 10102018.wiff | |
| 2 | ~~J8337-FS-D(9)~~ | ~~VC-PM324-DW02-0918~~ | 10/10/2018 11:13:37 PM | ~~5-0369.dam~~ | ~~10102018.wiff~~ | (3) |
| 30 | MeOH | | 10/10/2018 11:24:28 PM | 5-0369.dam | 10102018.wiff | |
| 31 | KB77 CCV | CCV | 10/10/2018 11:35:21 PM | 5-0369.dam | 10102018.wiff | |

(1) Extracts do not apply to this batch. LMG 10/19/18

(2) Extracts were not needed and were not reported. LMG 10/19/18

(3) A lower dilution was required. This extract was not used. LMG 10/19/18

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Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 3:58:09 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| 1 | MeOH | | 10/17/2018 7:36:00 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 2 | KB73 | L1 | 10/17/2018 7:46:52 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 3 | KB74 | L2 | 10/17/2018 7:57:45 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 4 | KB75 | L3 | 10/17/2018 8:08:39 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 5 | KB76 | L4 | 10/17/2018 8:19:32 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 6 | KB77 | L5 | 10/17/2018 8:30:23 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 7 | KB78 | L6 | 10/17/2018 8:41:14 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 8 | KB79 | L7 | 10/17/2018 8:52:06 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 9 | KB80 IB | Instrument Blank | 10/17/2018 9:02:57 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 10 | KB81 ICC | ICC | 10/17/2018 9:13:49 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 11 | KB89 Branch | Branched Standard | 10/17/2018 9:24:41 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 1 | MeOH | | 10/17/2018 9:35:33 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 12 | CR904PB-FS(3) | | 10/17/2018 9:46:25 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 13 | CR905LCS-FS(3) | | 10/17/2018 9:57:17 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 14 | J8465-FS(3) | | 10/17/2018 10:08:09 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 15 | J8466-FS(3) | | 10/17/2018 10:19:02 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 16 | J8467-FS(3) | | 10/17/2018 10:29:52 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 17 | J8468-FS(3) | | 10/17/2018 10:40:44 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff (1) |
| 18 | J8469-FS(3) | | 10/17/2018 10:51:34 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 19 | J8470-FS(3) | | 10/17/2018 11:02:25 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 20 | J8471-FS(3) | | 10/17/2018 11:13:17 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 21 | J8472-FS(3) | | 10/17/2018 11:24:10 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 22 | KB77 CCV | | 10/17/2018 11:35:03 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 23 | MeOH | | 10/17/2018 11:45:54 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 24 | J8473-FS(3) | | 10/17/2018 11:56:46 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 25 | K8474-FS(3) | | 10/18/2018 12:07:38 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 26 | J8475-FS(3) | | 10/18/2018 12:18:30 | 5-0369.dam | Data18-0590_18- |

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Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 3:58:09 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| | | | AM | | 01588_18-0589.wiff |
| 27 | J8476-FS(3) | | 10/18/2018 12:29:22 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 28 | J8337-FS-D(13) | | 10/18/2018 12:40:14 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 29 | KB76 CCV | | 10/18/2018 12:51:06 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 30 | MeOH | | 10/18/2018 1:01:58 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 31 | CR900PB-FS(0) | | 10/18/2018 1:12:51 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 32 | CR901LCS-FS(0) | | 10/18/2018 1:23:44 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 33 | J8455-FS(0) | | 10/18/2018 1:34:36 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 34 | J8456-FS(0) | | 10/18/2018 1:45:28 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 35 | J8457-FS(0) | | 10/18/2018 1:56:20 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 36 | J8457-FS-D(3) | | 10/18/2018 2:07:11 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 37 | J8457-FS-D(5) | | 10/18/2018 2:18:02 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 38 | J8457-FS-D(7) | | 10/18/2018 2:28:56 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 39 | KB77 CCV | | 10/18/2018 2:39:48 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff (1) |
| 40 | MeOH | | 10/18/2018 2:50:41 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 41 | J8458-FS(0) | | 10/18/2018 3:01:33 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 42 | J8458-FS-D(3) | | 10/18/2018 3:12:26 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 43 | J8458-FS-D(5) | | 10/18/2018 3:23:17 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 44 | J8459-FS(0) | | 10/18/2018 3:34:08 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 45 | J8459-FS-D(3) | | 10/18/2018 3:44:59 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 46 | J8459-FS-D(5) | | 10/18/2018 3:55:51 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 47 | J8460-FS(0) | | 10/18/2018 4:06:44 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 48 | J8460-FS-D(3) | | 10/18/2018 4:17:36 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 49 | J8460-FS-D(5) | | 10/18/2018 4:28:28 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 50 | KB76 CCV | | 10/18/2018 4:39:20 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 51 | MeOH | | 10/18/2018 4:50:12 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 52 | J8461-FS(0) | | 10/18/2018 5:01:04 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |

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Sequence Report

Created with Analyst Reporter
Printed: 19/10/2018 3:58:09 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| 53 | J8461-FS-D(3) | | 10/18/2018 5:11:56 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 54 | J8461-FS-D(5) | | 10/18/2018 5:22:47 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 1 | J8462-FS(0) | | 10/18/2018 5:33:39 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 2 | J8462-FS-D(3) | | 10/18/2018 5:44:32 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 3 | J8462-FS-D(5) | | 10/18/2018 5:55:26 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 4 | J8463MS-FS(0) | | 10/18/2018 6:06:18 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 5 | J8463MS-FS-D(3) | | 10/18/2018 6:17:11 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 6 | J8463MS-FS-D(5) | | 10/18/2018 6:28:05 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 7 | KB77 CCV | | 10/18/2018 6:38:59 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 8 | MeOH | | 10/18/2018 6:49:52 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 9 | J8464MSD-FS(0) | | 10/18/2018 7:00:44 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 10 | J8464MSD-FS-D(3) | | 10/18/2018 7:11:37 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 11 | J8464MSD-FS-D(5) | | 10/18/2018 7:22:30 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 12 | J8477-FS(0) | | 10/18/2018 7:33:23 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 13 | J8477-FS-D(3) | | 10/18/2018 7:44:17 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 14 | J8477-FS-D(5) | | 10/18/2018 7:55:10 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff (1) |
| 15 | J8478-FS(0) | | 10/18/2018 8:06:03 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 16 | J8478-FS-D(3) | | 10/18/2018 8:16:56 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 18 | KB76 CCV | | 10/18/2018 8:38:41 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 19 | MeOH | | 10/18/2018 8:49:32 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 20 | J8479-FS(0) | | 10/18/2018 9:00:25 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 21 | J8479-FS-D(3) | | 10/18/2018 9:11:19 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 22 | J8479-FS-D(5) | | 10/18/2018 9:22:14 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 23 | J8480-FS(0) | | 10/18/2018 9:33:08 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 24 | J8480-FS-D(3) | | 10/18/2018 9:44:00 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 25 | J8480-FS-D(5) | | 10/18/2018 9:54:54 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 26 | J8481-FS(0) | | 10/18/2018 10:05:48 | 5-0369.dam | Data18-0590_18- |

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Sequence Report

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Printed: 19/10/2018 3:58:09 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| | | | AM | | 01588_18-0589.wiff |
| 27 | J8481-FS-D(3) | | 10/18/2018 10:16:41 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 28 | J8481-FS-D(5) | | 10/18/2018 10:27:34 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 29 | KB77 CCV | | 10/18/2018 10:38:28 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 30 | MeOH | | 10/18/2018 10:49:21 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 31 | J8482-FS(0) | | 10/18/2018 11:00:14 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 32 | J8483-FS(0) | | 10/18/2018 11:11:06 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 33 | KB76 CCV | | 10/18/2018 11:22:00 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 34 | MeOH | | 10/18/2018 11:32:53 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 35 | CR902PB-FS(3) | | 10/18/2018 11:43:47 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 36 | CR903LCS-FS(3) | | 10/18/2018 11:54:39 AM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 37 | J8438-FS(3) | | 10/18/2018 12:05:31 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 38 | J8438-FS-D(5) | | 10/18/2018 12:16:25 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 39 | J8439-FS(3) | | 10/18/2018 12:27:18 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 40 | J8439-FS-D(5) | | 10/18/2018 12:38:11 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff (1) |
| 41 | J8440-FS(3) | | 10/18/2018 12:49:05 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 42 | J8440-FS-D(5) | | 10/18/2018 12:59:57 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 43 | KB77 CCV | | 10/18/2018 1:10:49 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 44 | MeOH | | 10/18/2018 1:21:42 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 45 | J8441-FS(3) | | 10/18/2018 1:32:35 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 46 | J8441-FS-D(5) | | 10/18/2018 1:43:28 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 47 | J8441-FS-D(7) | | 10/18/2018 1:54:21 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 48 | J8441-FS-D(9) | | 10/18/2018 2:05:14 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 30 | MeOH | | 10/18/2018 2:16:07 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 49 | J8442-FS(3) | | 10/18/2018 2:48:44 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 50 | J8442-FS-D(5) | | 10/18/2018 2:59:38 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 51 | J8442-FS-D(7) | | 10/18/2018 3:10:33 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |

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Printed: 19/10/2018 3:58:09 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| 52 | J8442-FS-D(9) | | 10/18/2018 3:21:26 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 53 | KB76 CCV | | 10/18/2018 3:32:19 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 54 | MeOH | | 10/18/2018 3:43:13 PM | 5-0369.dam | Data18-0590_18-01588_18-0589.wiff |
| 1 | J8443-FS(3) | | 10/18/2018 3:54:05 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 2 | J8443-FS-D(5) | | 10/18/2018 4:04:56 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 3 | J8443-FS-D(7) | | 10/18/2018 4:15:48 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 4 | J8444-FS-D(7) | | 10/18/2018 4:26:39 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 5 | J8444-FS-D(9) | | 10/18/2018 4:37:32 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 6 | J8444-FS-D(11) | | 10/18/2018 4:48:24 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 7 | J8444-FS-D(13) | | 10/18/2018 4:59:16 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 8 | J8444-FS-D(15) | | 10/18/2018 5:10:08 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 9 | KB77 CCV | | 10/18/2018 5:20:59 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 10 | MeOH | | 10/18/2018 5:31:50 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 11 | J8445-FS(3) | | 10/18/2018 5:42:42 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 12 | J8445-FS-D(5) | | 10/18/2018 5:53:34 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 13 | J8445-FS-D(7) | | 10/18/2018 6:04:26 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 14 | J8445-FS-D(9) | | 10/18/2018 6:15:17 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 15 | J8446-FS(3) | | 10/18/2018 6:26:09 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 16 | J8446-FS-D(5) | | 10/18/2018 6:37:01 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 17 | J8447-FS(3) | | 10/18/2018 6:47:52 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 18 | J8448-FS(3) | | 10/18/2018 6:58:43 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 19 | J8448-FS-D(5) | | 10/18/2018 7:09:33 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 20 | KB76 CCV | | 10/18/2018 7:20:24 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 21 | MeOH | | 10/18/2018 7:31:17 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 22 | J8449-FS(3) | | 10/18/2018 7:42:10 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 23 | J8449-FS-D(5) | | 10/18/2018 7:53:03 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 24 | J8450-FS(3) | | 10/18/2018 8:03:55 | 5-0369.dam | 18-0590_18-01588_18- |

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Printed: 19/10/2018 3:58:09 PM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| | | | PM | | 0589.wiff |
| 25 | J8450-FS-D(5) | | 10/18/2018 8:14:47 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 26 | J8451-FS(3) | | 10/18/2018 8:25:38 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 27 | J8451-FS-D(5) | | 10/18/2018 8:36:29 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 28 | J5452-FS((3) | | 10/18/2018 8:47:20 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 29 | J8452-FS-D(5) | | 10/18/2018 8:58:12 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 30 | KB77 CCV | | 10/18/2018 9:09:03 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 31 | MeOH | | 10/18/2018 9:19:54 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 32 | J8453MS-FS(3) | | 10/18/2018 9:30:47 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 33 | J8453MS-FS-D(5) | | 10/18/2018 9:41:39 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 34 | J8454MSD-FS(3) | | 10/18/2018 9:52:29 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 35 | J8454MSD-FS-D(5) | | 10/18/2018 10:03:21 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 36 | KB76 CCV | | 10/18/2018 10:14:13 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 37 | MeOH | | 10/18/2018 10:25:04 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff (1) |
| 38 | J8444-FS(5) | | 10/18/2018 10:35:56 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 19 | MeOH | | 10/18/2018 11:41:06 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 1 | CR904PB-FS(3) | | 10/18/2018 11:51:59 PM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 2 | CR905LCS-FS(3) | | 10/19/2018 12:02:52 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 3 | J8465-FS(3) | | 10/19/2018 12:13:45 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 4 | J8466-FS(3) | | 10/19/2018 12:24:40 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 5 | J8467-FS(3) | | 10/19/2018 12:35:32 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 6 | J8468-FS(3) | | 10/19/2018 12:46:24 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 7 | J8469-FS(3) | | 10/19/2018 12:57:16 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 8 | J8470-FS(3) | | 10/19/2018 1:08:08 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 9 | J8471-FS(3) | | 10/19/2018 1:19:00 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 10 | KB76 CCV | | 10/19/2018 1:29:53 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |
| 11 | MeOH | | 10/19/2018 1:40:47 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff |

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| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| 12 | J8472-FS(3) | | 10/19/2018 1:51:41 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff | |
| 13 | J8473-FS(3) | | 10/19/2018 2:02:34 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff | |
| 14 | J8474-FS(3) | | 10/19/2018 2:13:28 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff | (1) |
| 15 | J8475-FS(3) | | 10/19/2018 2:24:20 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff | |
| 16 | J8476-FS(3) | | 10/19/2018 2:35:12 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff | |
| 17 | J8337-FS-D(13) | | 10/19/2018 2:46:05 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff | (2) |
| 18 | KB77 CCV | | 10/19/2018 2:56:57 AM | 5-0369.dam | 18-0590_18-01588_18-0589.wiff | |

(1) Extracts do not apply to this batch. LMG 10/19/18

(2) PFOS only was reported from this dilution. LMG 10/22/18

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Printed: 22/10/2018 10:59:26 AM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| 1 | KB75 ISC | ISC | 10/19/2018 6:16:51 PM | 5-0369.dam | 10192018.wiff | |
| 2 | KB80 IB | Instrument Blank | 10/19/2018 6:27:43 PM | 5-0369.dam | 10192018.wiff | |
| 3 | MeOH | | 10/19/2018 6:38:37 PM | 5-0369.dam | 10192018.wiff | |
| 4 | KV50 CKC 1 | | 10/19/2018 6:49:30 PM | 5-0369.dam | 10192018.wiff | |
| 5 | KC52 CHK2 | | 10/19/2018 7:00:22 PM | 5-0369.dam | 10192018.wiff | |
| 6 | CR904PB-FS(3) | | 10/19/2018 7:11:14 PM | 5-0369.dam | 10192018.wiff | |
| 7 | CR890PB-FS(0) | | 10/19/2018 7:22:06 PM | 5-0369.dam | 10192018.wiff | |
| 8 | J8384-FS-D(5) | | 10/19/2018 7:32:58 PM | 5-0369.dam | 10192018.wiff | |
| 9 | J8358-FS(0) | | 10/19/2018 7:43:49 PM | 5-0369.dam | 10192018.wiff | |
| 1 | MeOH | | 10/19/2018 7:54:40 PM | 5-0369.dam | 10192018.wiff | |
| 10 | J8400-FS-D(9) | | 10/19/2018 8:05:33 PM | 5-0369.dam | 10192018.wiff | |
| 11 | J8371-FS-D(9) | | 10/19/2018 8:16:26 PM | 5-0369.dam | 10192018.wiff | |
| 12 | J8464MSD-FS-D(7) | | 10/19/2018 8:27:19 PM | 5-0369.dam | 10192018.wiff | (1) |
| 13 | KB76 CCV | | 10/19/2018 8:38:12 PM | 5-0369.dam | 10192018.wiff | |
| 1 | MeOH | | 10/19/2018 8:49:05 PM | 5-0369.dam | 10192018.wiff | |
| 14 | J8462-FS-D(7) | | 10/19/2018 8:59:57 PM | 5-0369.dam | 10192018.wiff | |
| 15 | J8477-FS-D(7) | | 10/19/2018 9:10:49 PM | 5-0369.dam | 10192018.wiff | |
| 16 | J8478-FS-D(7) | | 10/19/2018 9:21:41 PM | 5-0369.dam | 10192018.wiff | |
| 17 | J8479-FS-D(7) | | 10/19/2018 9:32:32 PM | 5-0369.dam | 10192018.wiff | |
| 18 | J8480-FS-D(7) | | 10/19/2018 9:43:23 PM | 5-0369.dam | 10192018.wiff | |
| 19 | J8481-FS-D(7) | | 10/19/2018 9:54:14 PM | 5-0369.dam | 10192018.wiff | |
| 20 | J8460-FS-D(7) | | 10/19/2018 10:05:06 PM | 5-0369.dam | 10192018.wiff | |
| 21 | J8461-FS-D(7) | | 10/19/2018 10:15:59 PM | 5-0369.dam | 10192018.wiff | |
| 22 | KB77 CCV | | 10/19/2018 10:26:52 PM | 5-0369.dam | 10192018.wiff | |
| 1 | MeOH | | 10/19/2018 10:37:43 PM | 5-0369.dam | 10192018.wiff | |
| 23 | J8440-FS-D(7) | | 10/19/2018 10:48:35 PM | 5-0369.dam | 10192018.wiff | |
| 24 | J8443-FS-D(9) | | 10/19/2018 10:59:28 | 5-0369.dam | 10192018.wiff | |

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| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| | | | PM | | |
| 25 | J8445-FS-D(11) | | 10/19/2018 11:10:20 PM | 5-0369.dam | 10192018.wiff |
| 26 | J8446-FS-D(7) | | 10/19/2018 11:21:12 PM | 5-0369.dam | 10192018.wiff |
| 27 | J8450-FS-D(7) | | 10/19/2018 11:32:04 PM | 5-0369.dam | 10192018.wiff |
| 28 | J8444-FS-D(17) | | 10/19/2018 11:42:56 PM | 5-0369.dam | 10192018.wiff |
| 29 | KB76 CCV | | 10/19/2018 11:53:48 PM | 5-0369.dam | 10192018.wiff |
| 30 | MeOH | | 10/20/2018 12:04:41 AM | 5-0369.dam | 10192018.wiff |
| 31 | CR988PB-FS(3) | | 10/20/2018 12:15:33 AM | 5-0369.dam | 10192018.wiff |
| 32 | CR989LCS-FS(3) | | 10/20/2018 12:26:25 AM | 5-0369.dam | 10192018.wiff |
| 33 | J8658-FS(3) | | 10/20/2018 12:37:17 AM | 5-0369.dam | 10192018.wiff |
| 34 | J8659-FS(3) | | 10/20/2018 12:48:08 AM | 5-0369.dam | 10192018.wiff |
| 35 | J8660-FS(3) | | 10/20/2018 12:59:00 AM | 5-0369.dam | 10192018.wiff |
| 36 | J8661-FS(3) | | 10/20/2018 1:09:52 AM | 5-0369.dam | 10192018.wiff |
| 37 | J8662-FS-D(5) | | 10/20/2018 1:20:44 AM | 5-0369.dam | 10192018.wiff |
| 38 | J8662-FS(3) | | 10/20/2018 1:31:37 AM | 5-0369.dam | 10192018.wiff |
| 39 | J8663-FS(3) | | 10/20/2018 1:42:29 AM | 5-0369.dam | 10192018.wiff |
| 40 | J8664-FS(3) | | 10/20/2018 1:53:22 AM | 5-0369.dam | 10192018.wiff |
| 41 | KB77 CCV | | 10/20/2018 2:04:14 AM | 5-0369.dam | 10192018.wiff |
| 30 | MeOH | | 10/20/2018 2:15:07 AM | 5-0369.dam | 10192018.wiff |
| 42 | J8665-FS(3) | | 10/20/2018 2:25:59 AM | 5-0369.dam | 10192018.wiff |
| 43 | J8666-FS(3) | | 10/20/2018 2:36:51 AM | 5-0369.dam | 10192018.wiff |
| 44 | J8671-FS(3) | | 10/20/2018 2:47:42 AM | 5-0369.dam | 10192018.wiff |
| 45 | J8672-FS(3) | | 10/20/2018 2:58:33 AM | 5-0369.dam | 10192018.wiff |
| 46 | J8673-FS(3) | | 10/20/2018 3:09:25 AM | 5-0369.dam | 10192018.wiff |
| 47 | J8674-FS(3) | | 10/20/2018 3:20:16 AM | 5-0369.dam | 10192018.wiff |
| 48 | J8675-FS(3) | | 10/20/2018 3:31:08 AM | 5-0369.dam | 10192018.wiff |
| 49 | J8676-FS(3) | | 10/20/2018 3:41:59 AM | 5-0369.dam | 10192018.wiff |

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| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File | |
|---|---|---|---|---|---|---|
| 50 | KB76 CCV | | 10/20/2018 3:52:52 AM | 5-0369.dam | 10192018.wiff | |
| 30 | MeOH | | 10/20/2018 4:03:44 AM | 5-0369.dam | 10192018.wiff | |
| 51 | CR990PB-FS(3) | | 10/20/2018 4:14:37 AM | 5-0369.dam | 10192018.wiff | |
| 52 | CR991LCS-FS(3) | | 10/20/2018 4:25:28 AM | 5-0369.dam | 10192018.wiff | |
| 53 | J8677-FS(3) | | 10/20/2018 4:36:21 AM | 5-0369.dam | 10192018.wiff | |
| 54 | J8678-FS(3) | | 10/20/2018 4:47:12 AM | 5-0369.dam | 10192018.wiff | |
| 1 | J8679-FS(3) | | 10/20/2018 4:58:05 AM | 5-0369.dam | 10192018.wiff | (1) |
| 2 | J8680-FS(3) | | 10/20/2018 5:08:58 AM | 5-0369.dam | 10192018.wiff | |
| 3 | J8681-FS(3) | | 10/20/2018 5:19:52 AM | 5-0369.dam | 10192018.wiff | |
| 4 | J8682-FS(3) | | 10/20/2018 5:30:46 AM | 5-0369.dam | 10192018.wiff | |
| 5 | J8689-FS(3) | | 10/20/2018 5:41:39 AM | 5-0369.dam | 10192018.wiff | |
| 6 | J8690-FS(3) | | 10/20/2018 5:52:33 AM | 5-0369.dam | 10192018.wiff | |
| 7 | KB77 CCV | CCV | 10/20/2018 6:03:27 AM | 5-0369.dam | 10192018.wiff | |
| 20 | MeOH | | 10/20/2018 6:14:20 AM | 5-0369.dam | 10192018.wiff | |
| 8 | J8691-FS(3) | | 10/20/2018 6:25:13 AM | 5-0369.dam | 10192018.wiff | |
| 9 | J8692-FS(3) | | 10/20/2018 6:36:06 AM | 5-0369.dam | 10192018.wiff | |
| 10 | J8692-FS-D(5) | | 10/20/2018 6:46:58 AM | 5-0369.dam | 10192018.wiff | |
| 11 | J8693-FS(3) | | 10/20/2018 6:57:51 AM | 5-0369.dam | 10192018.wiff | (1) |
| 12 | J8694-FS(3) | | 10/20/2018 7:08:44 AM | 5-0369.dam | 10192018.wiff | |
| 13 | J8695-FS(3) | | 10/20/2018 7:19:37 AM | 5-0369.dam | 10192018.wiff | |
| 14 | J8696-FS(3) | | 10/20/2018 7:30:31 AM | 5-0369.dam | 10192018.wiff | |
| 15 | J8696-FS-D(5) | | 10/20/2018 7:41:23 AM | 5-0369.dam | 10192018.wiff | |
| 16 | J8697-FS(3) | | 10/20/2018 7:52:16 AM | 5-0369.dam | 10192018.wiff | |
| 17 | J8326MSD-FS(0) | VC-PM323-324-DW02-0918-MSD | 10/20/2018 8:03:07 AM | 5-0369.dam | 10192018.wiff | (3) |
| 18 | J8326MSD-FS-D(3) | | 10/20/2018 8:13:59 AM | 5-0369.dam | 10192018.wiff | (2) |
| 50 | KB76 CCV | CCV | 10/20/2018 8:24:52 AM | 5-0369.dam | 10192018.wiff | |

(1) Extracts do not apply to this batch. LMG 10/22/18

(2) No results were reported from this extract; it was not needed. LMG 10/22/18

(3) NetFOSAA only was reported from this extract. The L7 was dropped in the calibration for the original analysis and the concentration in the dilutions was too low. The L7 was not dropped for this analyte in the calibration used to quantitate it. LMG 10/22/18

BATTELLE

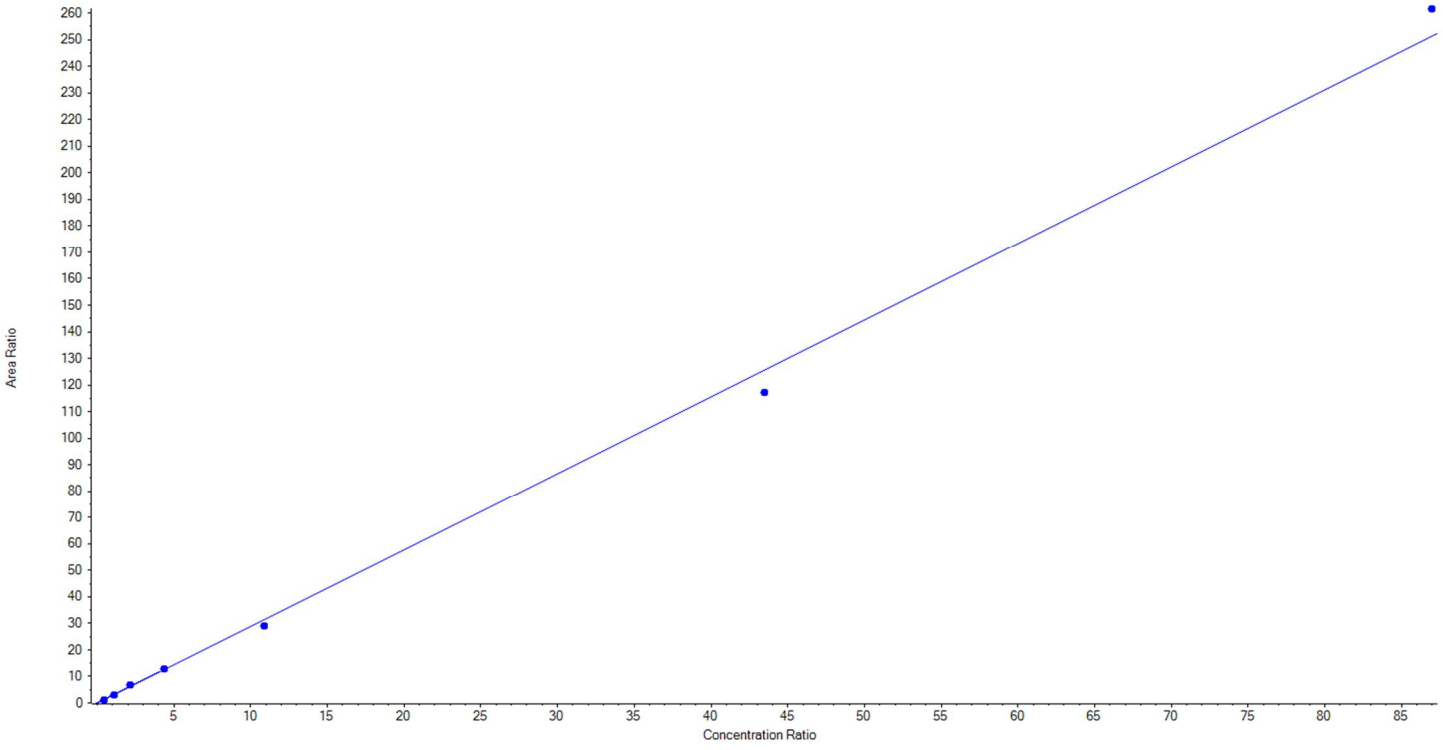
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFBS_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 298.9 / 80.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C3-PFBS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 2.88964 x + 9.26024e-4 (r = 0.99852) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 104.829113 | 103.8 |
| 3 | KB74 | L2 | True | 252.50 | 252.524146 | 100.0 |
| 4 | KB75 | L3 | True | 505.00 | 532.929180 | 105.5 |
| 5 | KB76 | L4 | True | 1010.00 | 1018.441783 | 100.8 |
| 6 | KB77 | L5 | True | 2525.00 | 2333.088531 | 92.4 |
| 7 | KB78 | L6 | True | 10100.00 | 9429.847331 | 93.4 |
| 8 | KB79 | L7 | True | 20200.00 | 21021.839916 | 104.1 |



BATTELLE

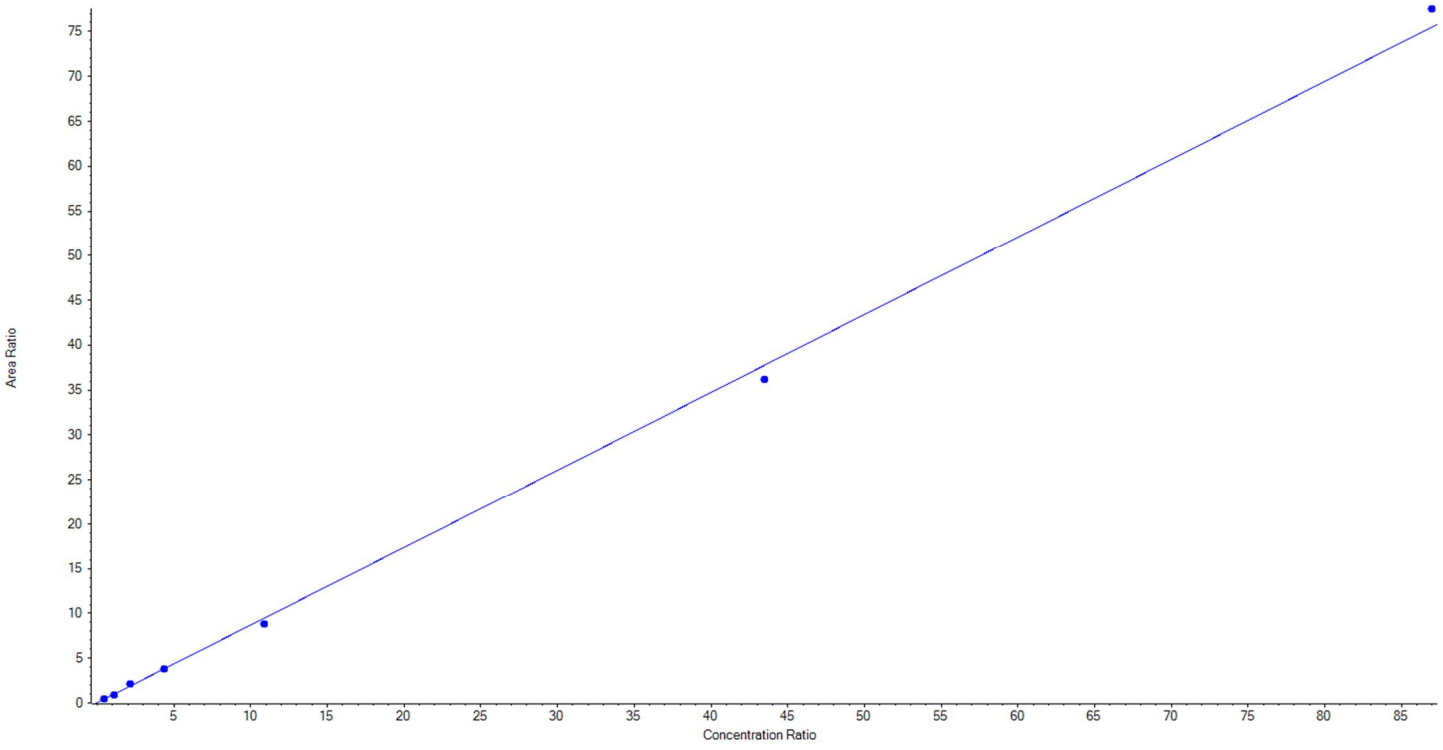
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFBS_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 298.9 / 99.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C3-PFBS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.86769 x + 0.02045 (r = 0.99925) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 101.098843 | 100.1 |
| 3 | KB74 | L2 | True | 252.50 | 248.521801 | 98.4 |
| 4 | KB75 | L3 | True | 505.00 | 558.854840 | 110.7 |
| 5 | KB76 | L4 | True | 1010.00 | 997.617783 | 98.8 |
| 6 | KB77 | L5 | True | 2525.00 | 2359.480451 | 93.4 |
| 7 | KB78 | L6 | True | 10100.00 | 9688.168095 | 95.9 |
| 8 | KB79 | L7 | True | 20200.00 | 20739.758186 | 102.7 |



BATTELLE

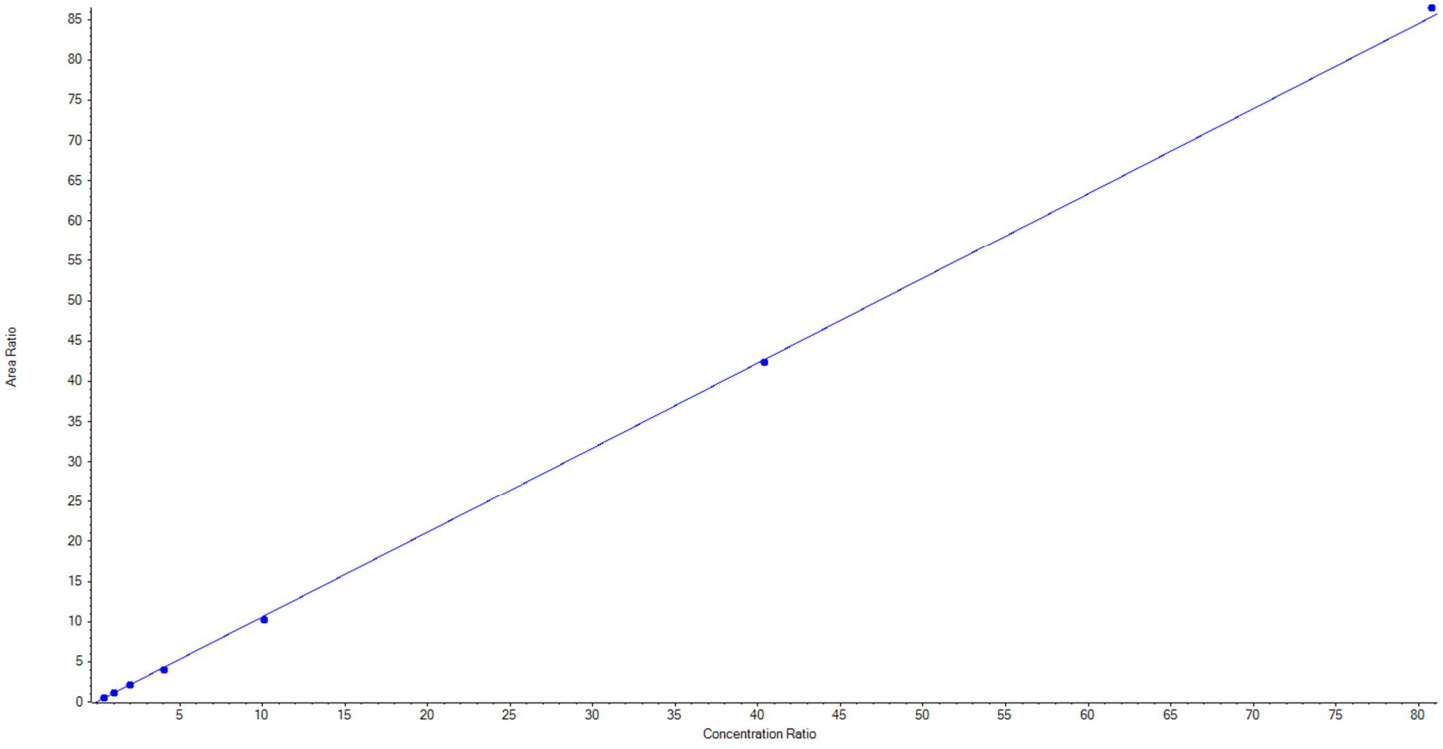
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFHxA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 313.0 / 269.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C5-PFHxA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.05567 x + 0.03773 (r = 0.99976) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 113.463123 | 112.3 |
| 3 | KB74 | L2 | True | 252.50 | 258.220575 | 102.3 |
| 4 | KB75 | L3 | True | 505.00 | 482.572019 | 95.6 |
| 5 | KB76 | L4 | True | 1010.00 | 945.287318 | 93.6 |
| 6 | KB77 | L5 | True | 2525.00 | 2419.069151 | 95.8 |
| 7 | KB78 | L6 | True | 10100.00 | 10013.661360 | 99.2 |
| 8 | KB79 | L7 | True | 20200.00 | 20461.226455 | 101.3 |



BATTELLE

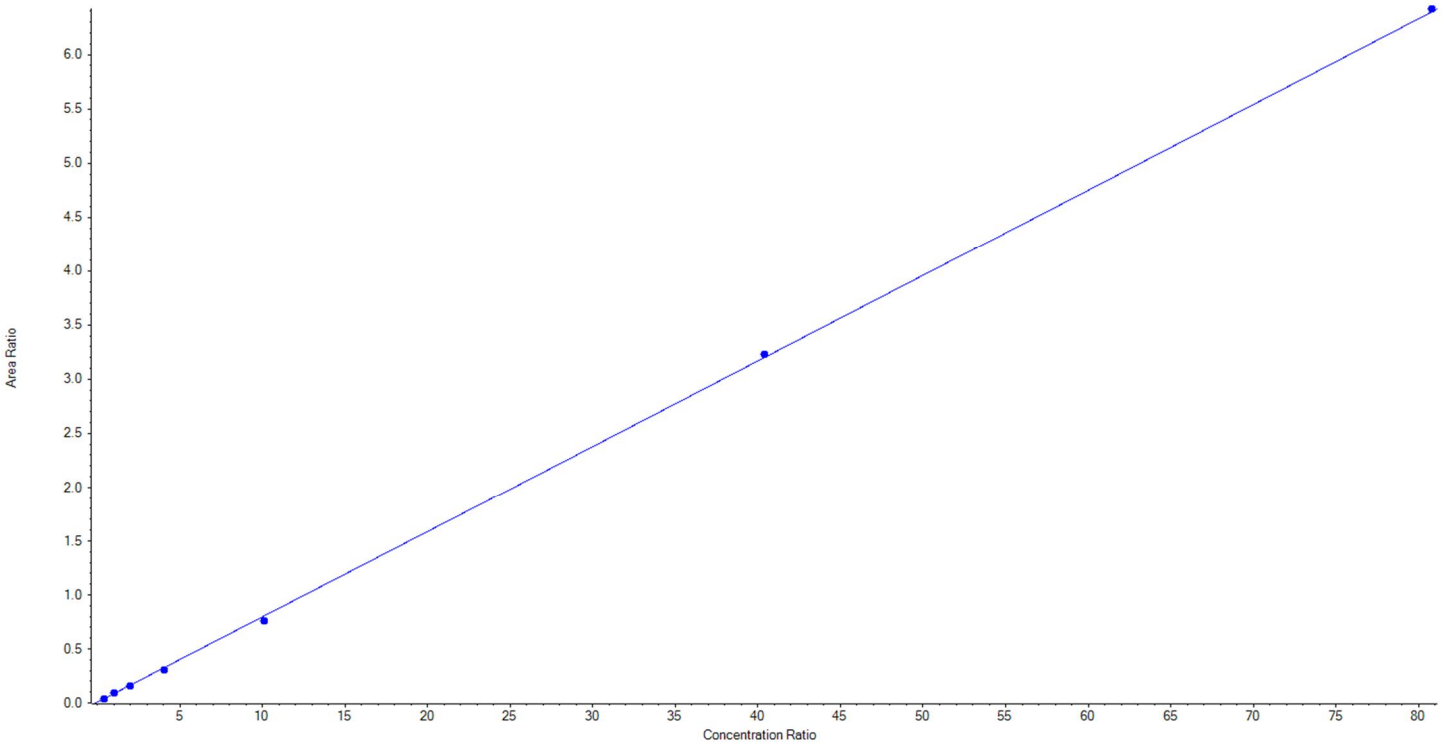
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFHxA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 313.0 / 119.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C5-PFHxA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.07908 x + 0.00563 (r = 0.99979) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 108.442717 | 107.4 |
| 3 | KB74 | L2 | True | 252.50 | 267.909760 | 106.1 |
| 4 | KB75 | L3 | True | 505.00 | 484.438769 | 95.9 |
| 5 | KB76 | L4 | True | 1010.00 | 952.719147 | 94.3 |
| 6 | KB77 | L5 | True | 2525.00 | 2395.486932 | 94.9 |
| 7 | KB78 | L6 | True | 10100.00 | 10198.343892 | 101.0 |
| 8 | KB79 | L7 | True | 20200.00 | 20286.158782 | 100.4 |



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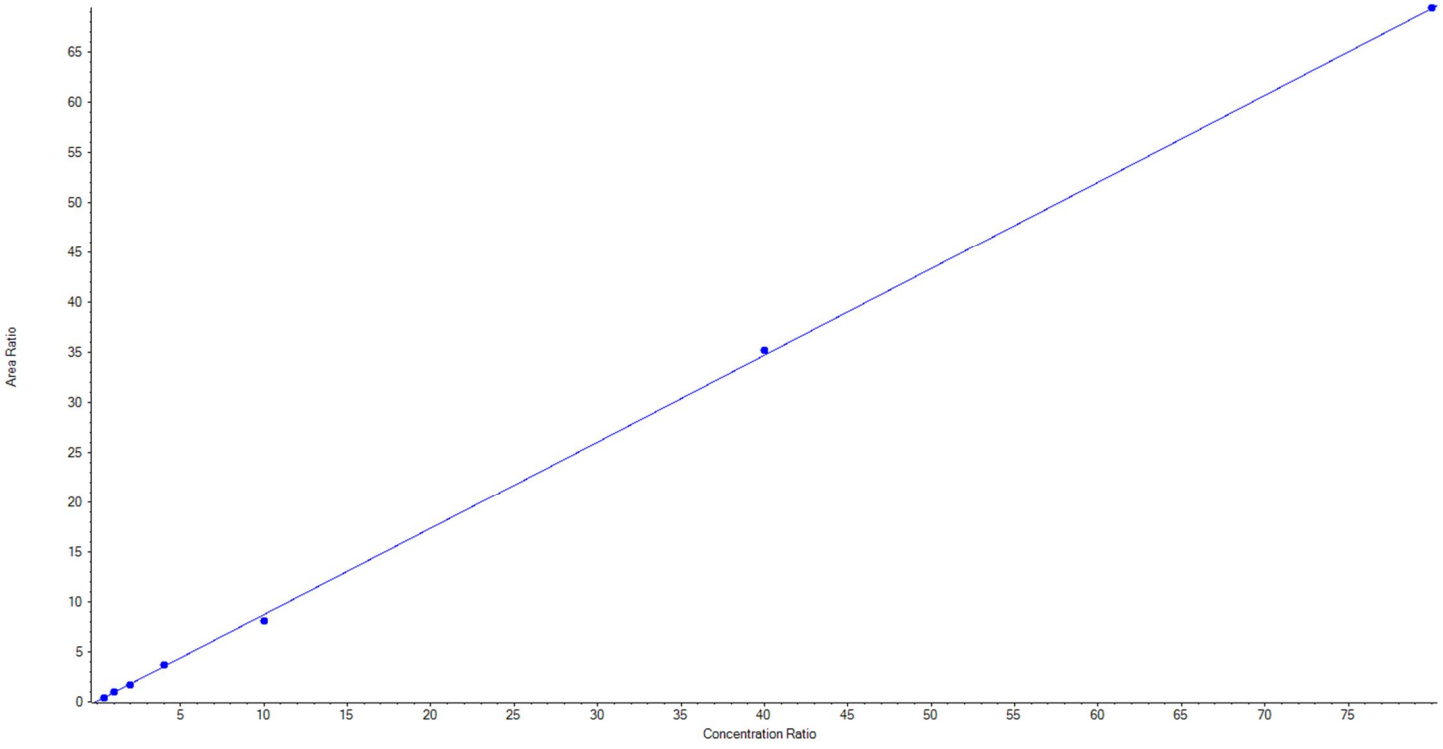
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFHpA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 363.0 / 319.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C4-PFHpA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.86648 x + 0.07783 (r = 0.99967) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 101.506515 | 101.5 |
| 3 | KB74 | L2 | True | 250.00 | 267.303609 | 106.9 |
| 4 | KB75 | L3 | True | 500.00 | 464.409874 | 92.9 |
| 5 | KB76 | L4 | True | 1000.00 | 1044.768290 | 104.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2318.952299 | 92.8 |
| 7 | KB78 | L6 | True | 10000.00 | 10137.969780 | 101.4 |
| 8 | KB79 | L7 | True | 20000.00 | 20015.089633 | 100.1 |



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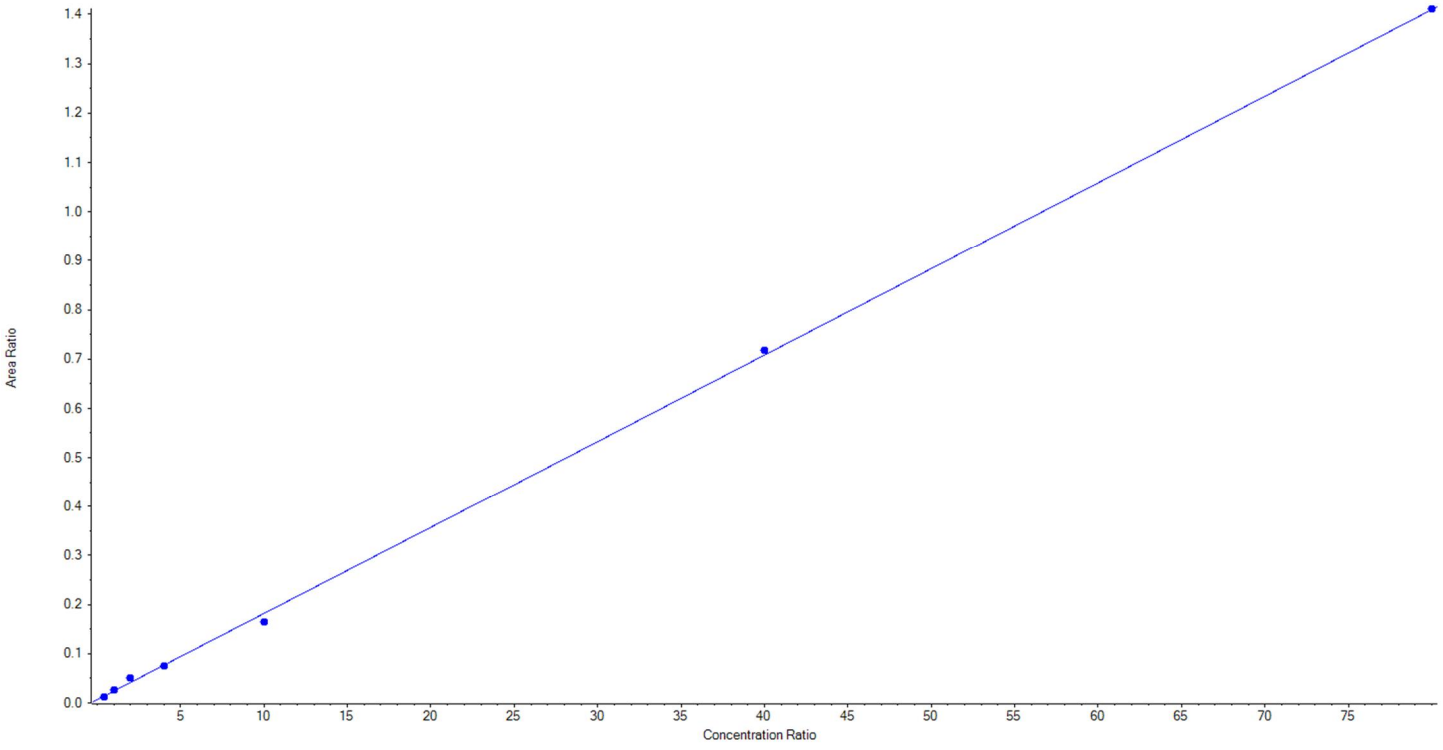
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFHpA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 363.0 / 169.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C4-PFHpA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.01754 x + 0.00657 (r = 0.99887) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 77.666828 | 77.7 |
| 3 | KB74 | L2 | True | 250.00 | 268.737630 | 107.5 |
| 4 | KB75 | L3 | True | 500.00 | 634.179378 | 126.8 |
| 5 | KB76 | L4 | True | 1000.00 | 967.461735 | 96.8 |
| 6 | KB77 | L5 | True | 2500.00 | 2244.844631 | 89.8 |
| 7 | KB78 | L6 | True | 10000.00 | 10135.347293 | 101.4 |
| 8 | KB79 | L7 | True | 20000.00 | 20021.762504 | 100.1 |



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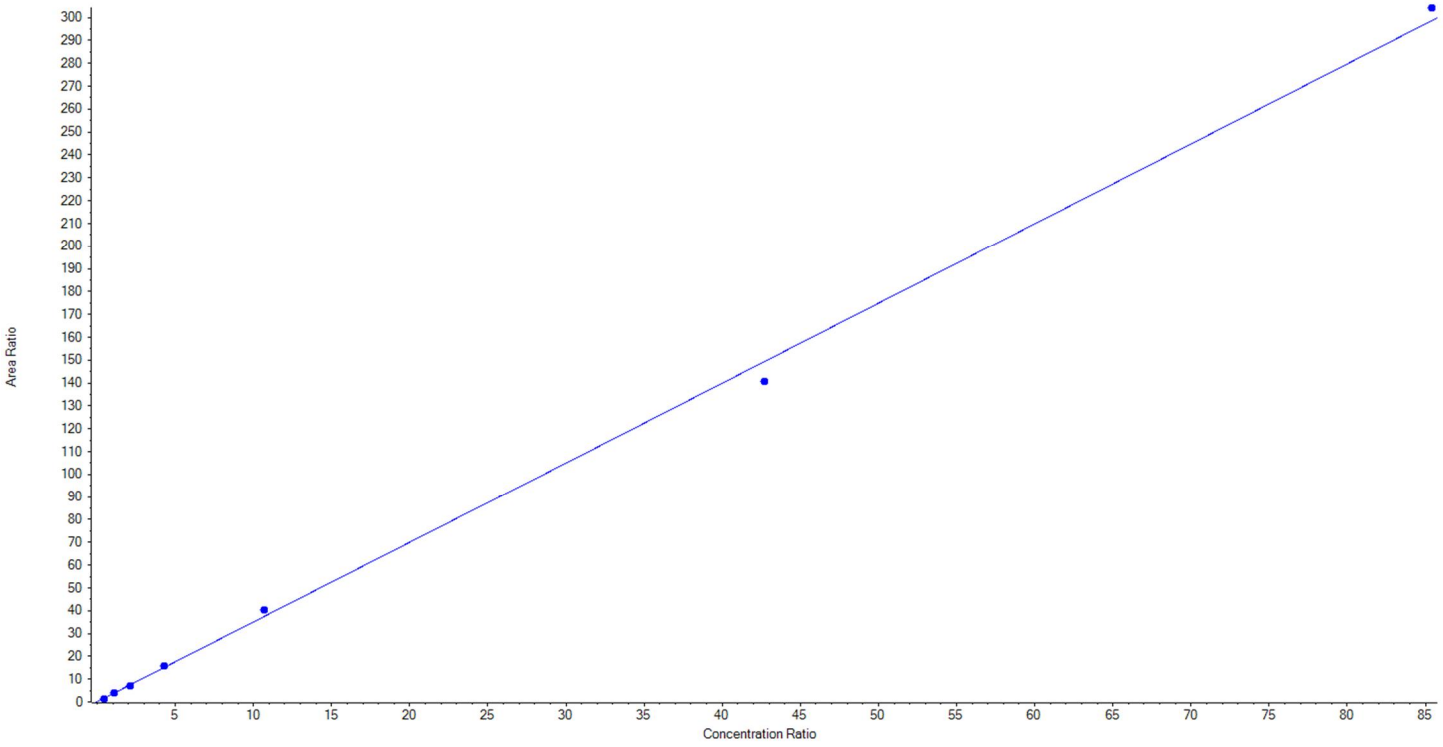
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFHxS_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 399.0 / 80.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C3-PFHxS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 3.49564 x + 0.10448 (r = 0.99901) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 96.189067 | 95.2 |
| 3 | KB74 | L2 | True | 252.50 | 261.547957 | 103.6 |
| 4 | KB75 | L3 | True | 505.00 | 466.566995 | 92.4 |
| 5 | KB76 | L4 | True | 1010.00 | 1058.906196 | 104.8 |
| 6 | KB77 | L5 | True | 2525.00 | 2725.211879 | 107.9 |
| 7 | KB78 | L6 | True | 10100.00 | 9510.773371 | 94.2 |
| 8 | KB79 | L7 | True | 20200.00 | 20574.304535 | 101.9 |



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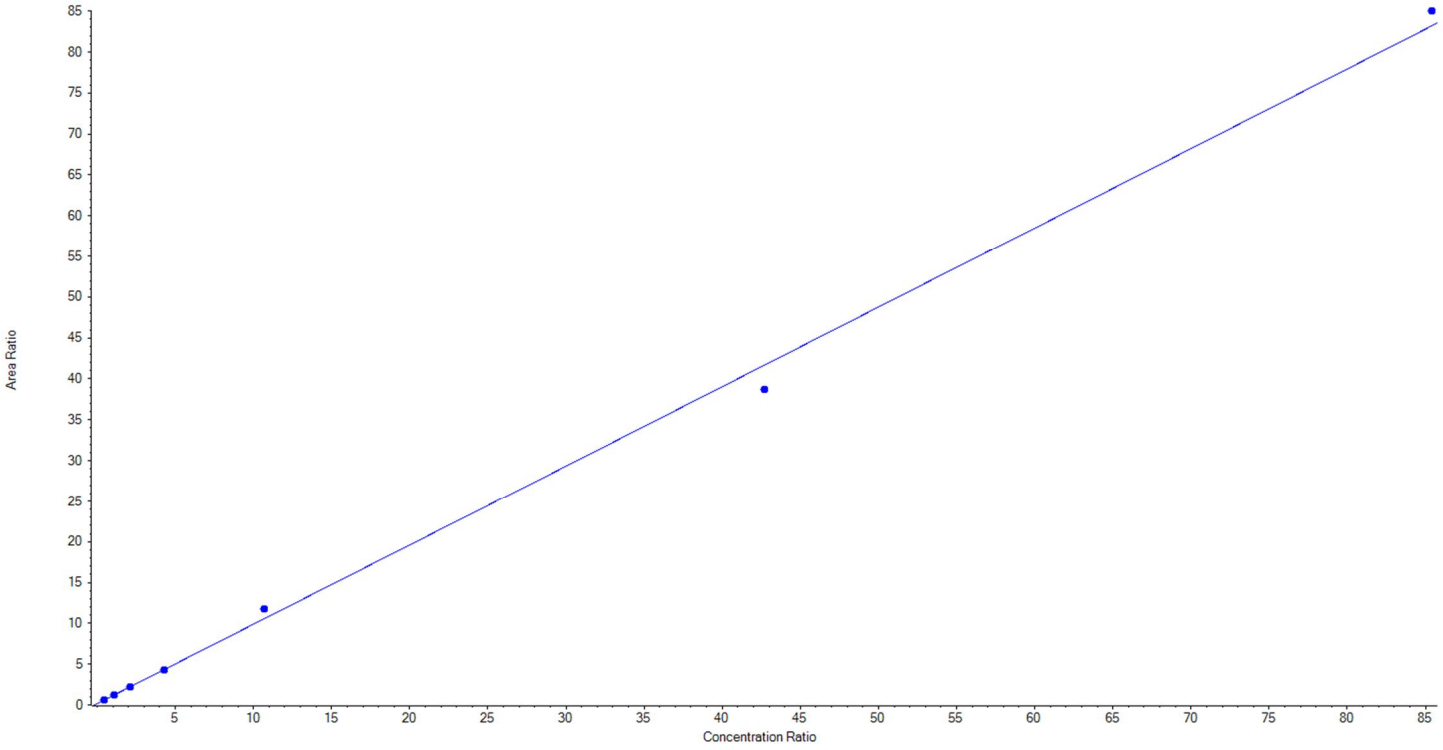
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFHxS_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 399.0 / 99.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C3-PFHxS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.97210 x + 0.16391 (r = 0.99851) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 95.061118 | 94.1 |
| 3 | KB74 | L2 | True | 252.50 | 248.171296 | 98.3 |
| 4 | KB75 | L3 | True | 505.00 | 508.104811 | 100.6 |
| 5 | KB76 | L4 | True | 1010.00 | 1016.816934 | 100.7 |
| 6 | KB77 | L5 | True | 2525.00 | 2811.160039 | 111.3 |
| 7 | KB78 | L6 | True | 10100.00 | 9370.075513 | 92.8 |
| 8 | KB79 | L7 | True | 20200.00 | 20644.110289 | 102.2 |



BATTELLE

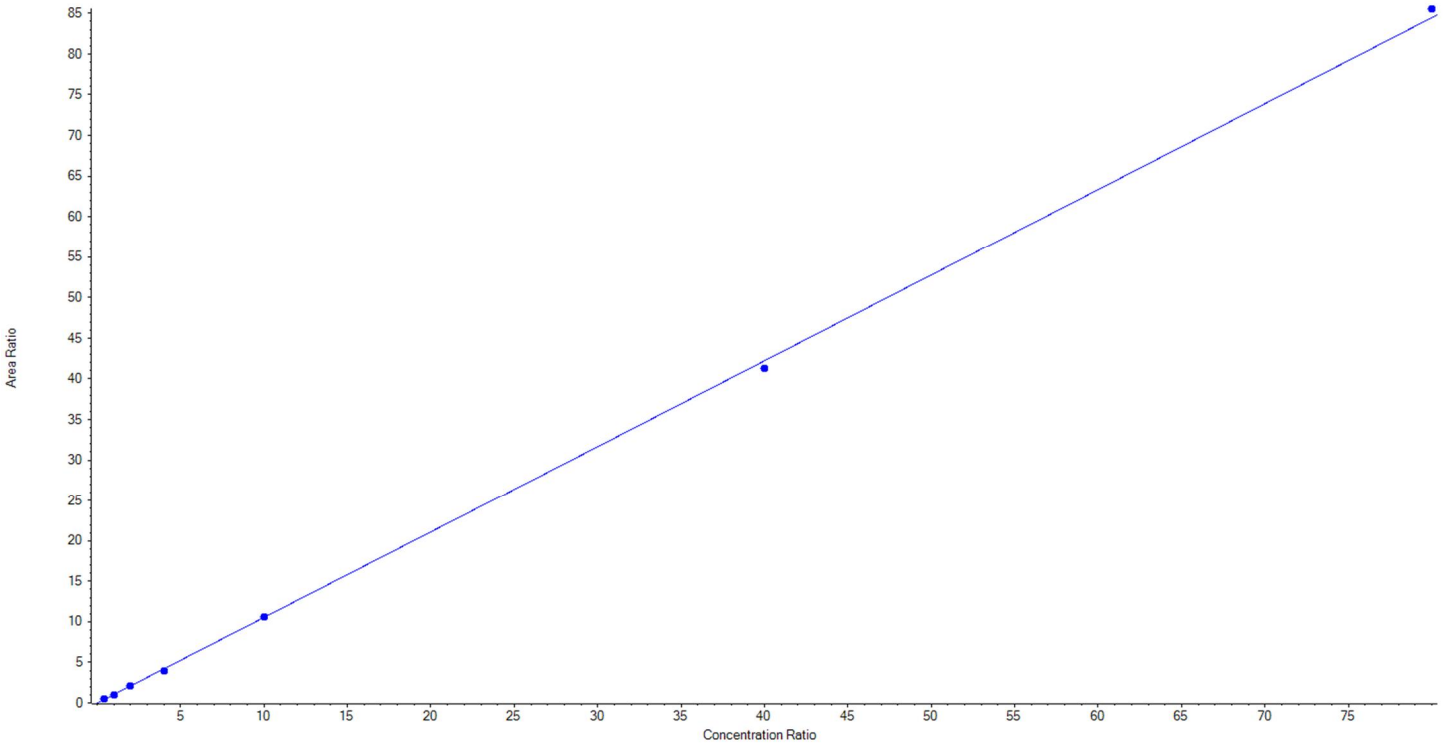
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFOA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 413.0 / 369.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C8-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.05614 x + -0.02325 (r = 0.99979) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 111.759164 | 111.8 |
| 3 | KB74 | L2 | True | 250.00 | 235.445902 | 94.2 |
| 4 | KB75 | L3 | True | 500.00 | 495.870315 | 99.2 |
| 5 | KB76 | L4 | True | 1000.00 | 949.074725 | 94.9 |
| 6 | KB77 | L5 | True | 2500.00 | 2522.264999 | 100.9 |
| 7 | KB78 | L6 | True | 10000.00 | 9782.483021 | 97.8 |
| 8 | KB79 | L7 | True | 20000.00 | 20253.101875 | 101.3 |



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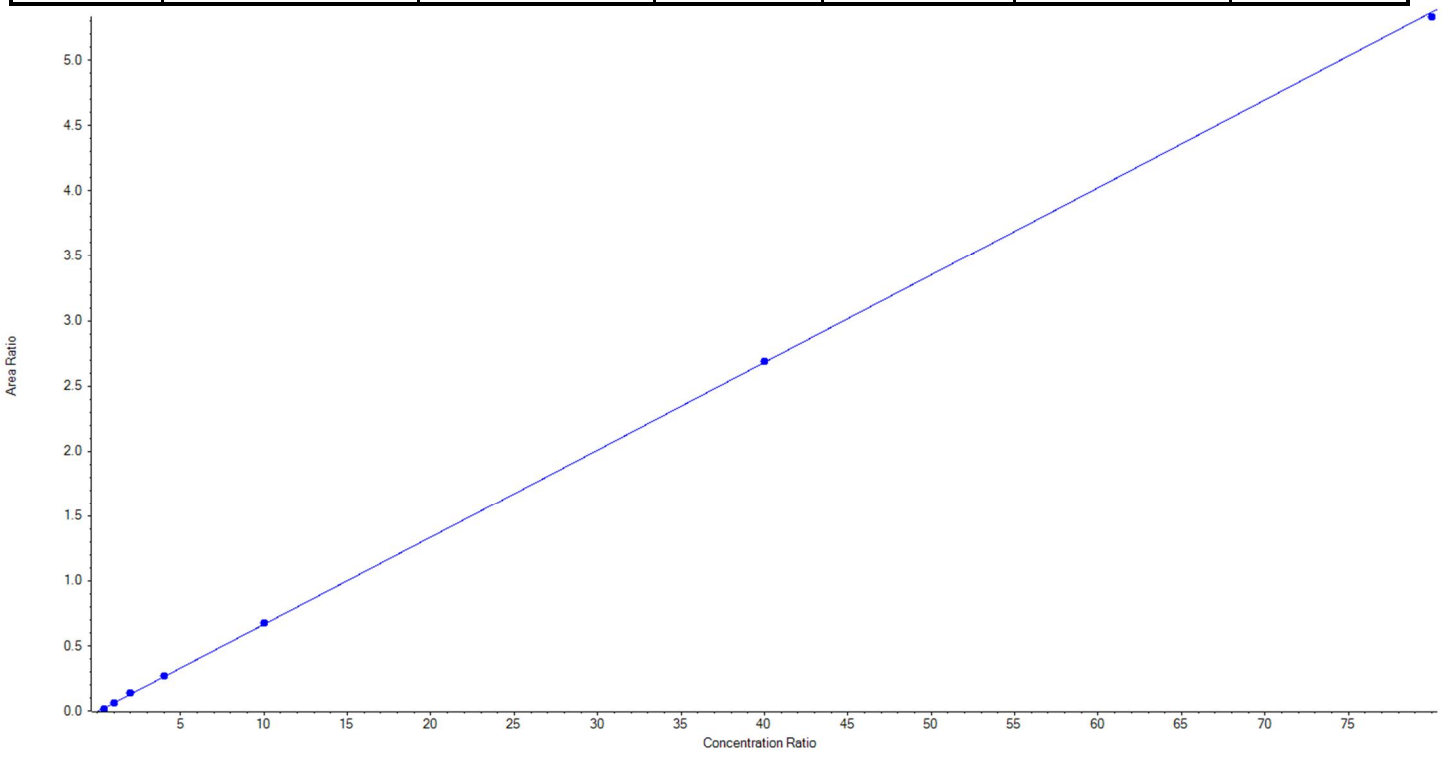
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFOA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 413.0 / 169.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C8-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.06720 x + -0.00683 (r = 0.99985) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 82.127204 | 82.1 |
| 3 | KB74 | L2 | True | 250.00 | 266.393231 | 106.6 |
| 4 | KB75 | L3 | True | 500.00 | 539.896756 | 108.0 |
| 5 | KB76 | L4 | True | 1000.00 | 1022.757278 | 102.3 |
| 6 | KB77 | L5 | True | 2500.00 | 2533.071951 | 101.3 |
| 7 | KB78 | L6 | True | 10000.00 | 10041.755775 | 100.4 |
| 8 | KB79 | L7 | True | 20000.00 | 19863.997806 | 99.3 |



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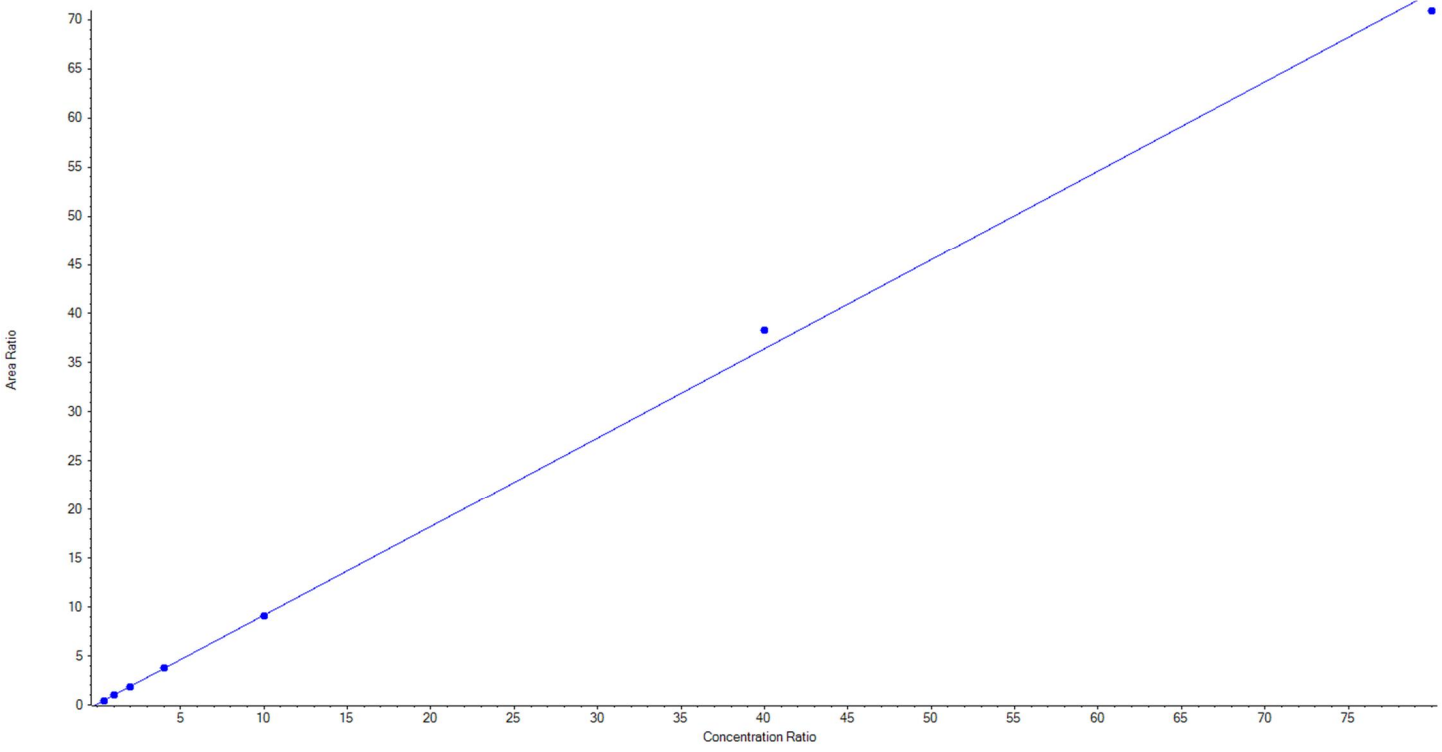
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFNA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 463.0 / 419.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C9-PFNA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.90853 x + 0.08507 (r = 0.99933) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 100.227006 | 100.2 |
| 3 | KB74 | L2 | True | 250.00 | 246.592068 | 98.6 |
| 4 | KB75 | L3 | True | 500.00 | 487.375797 | 97.5 |
| 5 | KB76 | L4 | True | 1000.00 | 1017.588183 | 101.8 |
| 6 | KB77 | L5 | True | 2500.00 | 2478.629081 | 99.2 |
| 7 | KB78 | L6 | True | 10000.00 | 10531.817377 | 105.3 |
| 8 | KB79 | L7 | True | 20000.00 | 19487.770488 | 97.4 |



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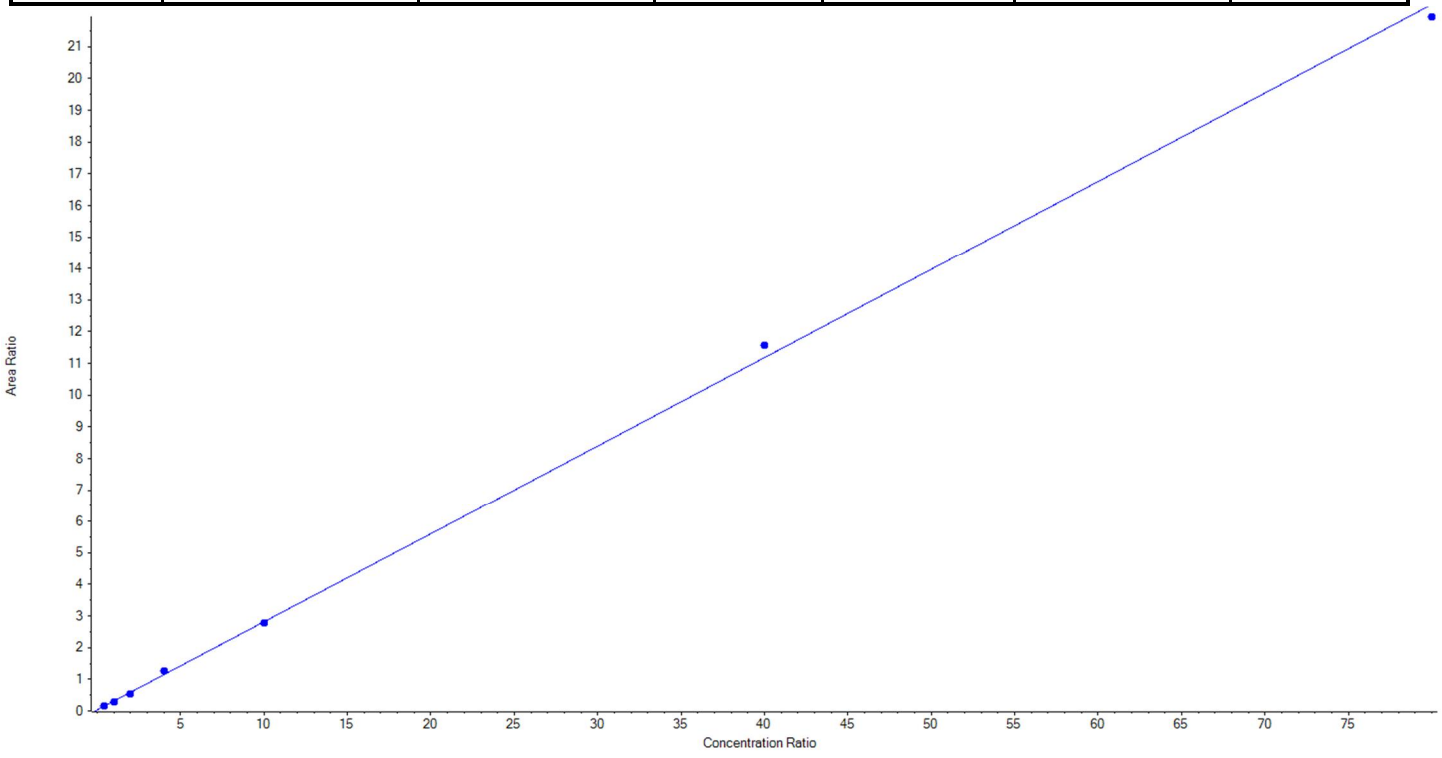
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFNA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 463.0 / 219.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C9-PFNA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.27875 x + 0.03121 (r = 0.99947) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 104.997783 | 105.0 |
| 3 | KB74 | L2 | True | 250.00 | 229.807247 | 91.9 |
| 4 | KB75 | L3 | True | 500.00 | 462.293325 | 92.5 |
| 5 | KB76 | L4 | True | 1000.00 | 1104.919284 | 110.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2463.114082 | 98.5 |
| 7 | KB78 | L6 | True | 10000.00 | 10335.963960 | 103.4 |
| 8 | KB79 | L7 | True | 20000.00 | 19648.904319 | 98.2 |



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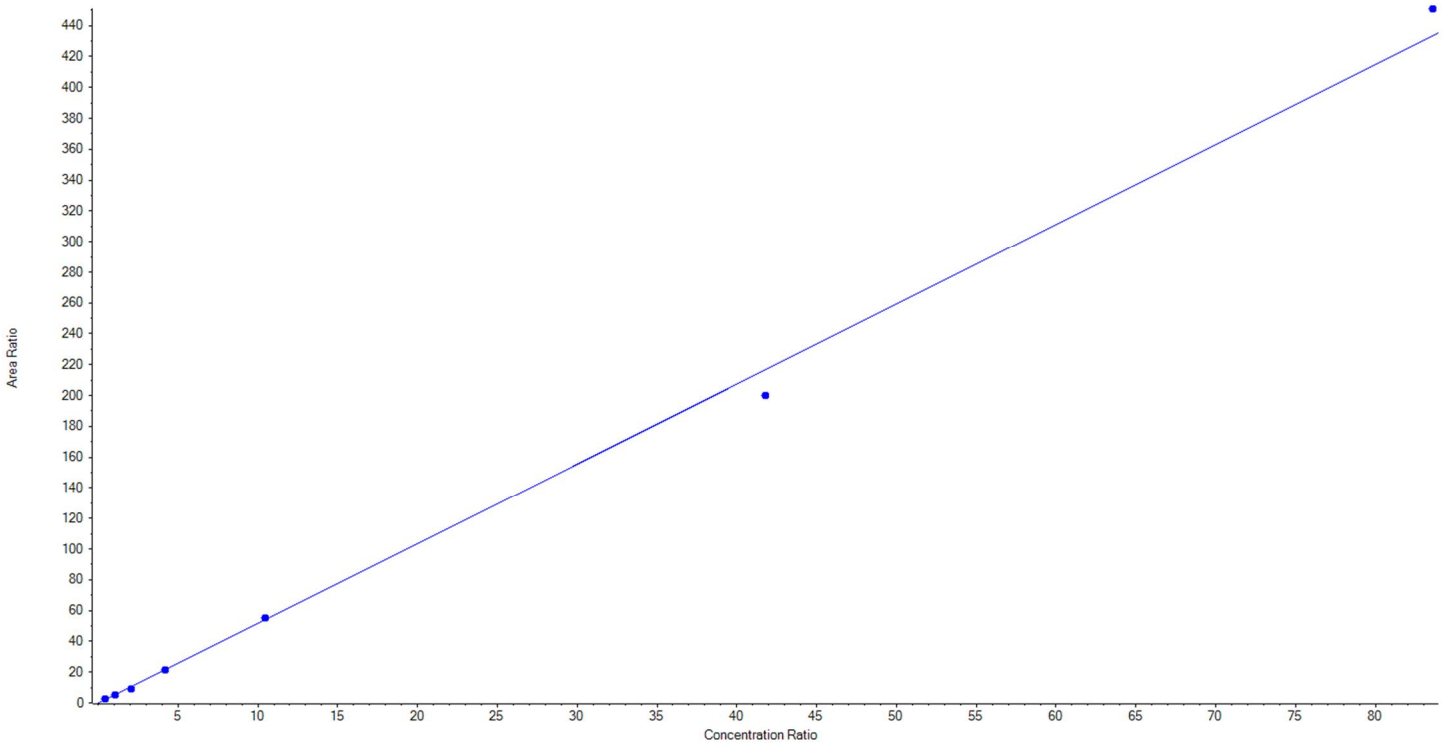
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:57 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFOS_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 499.0 / 80.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C8-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 5.18655 x + -0.12522 (r = 0.99830) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 120.082299 | 120.1 |
| 3 | KB74 | L2 | True | 250.00 | 247.410484 | 99.0 |
| 4 | KB75 | L3 | True | 500.00 | 423.663833 | 84.7 |
| 5 | KB76 | L4 | True | 1000.00 | 980.350327 | 98.0 |
| 6 | KB77 | L5 | True | 2500.00 | 2546.471683 | 101.9 |
| 7 | KB78 | L6 | True | 10000.00 | 9233.346899 | 92.3 |
| 8 | KB79 | L7 | True | 20000.00 | 20798.674476 | 104.0 |



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Calibration Summary Report

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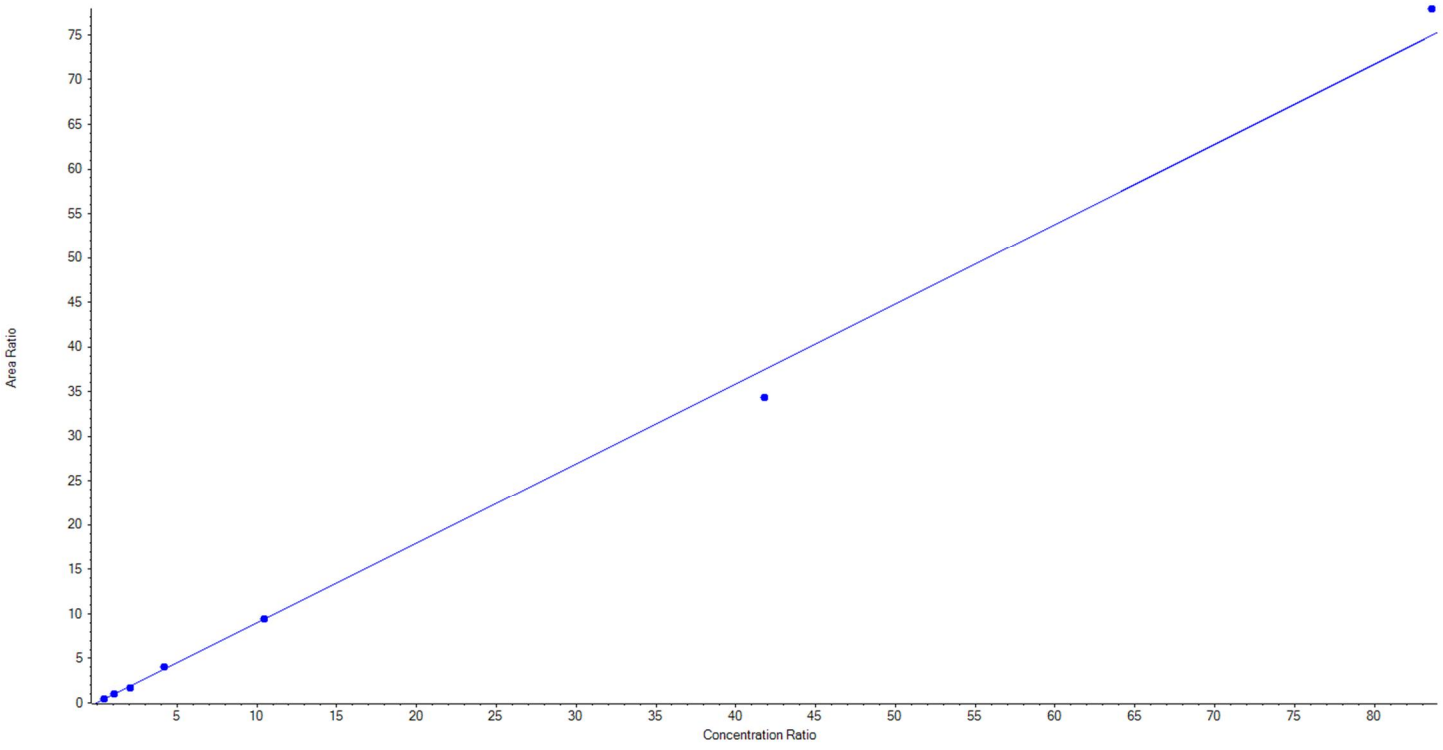
| | | | |
|---|---|---|---|
| **Analyte Name** | PFOS_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 499.0 / 99.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C8-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.89613 x + 0.03219 (r = 0.99814) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 106.677378 | 106.7 |
| 3 | KB74 | L2 | True | 250.00 | 260.257113 | 104.1 |
| 4 | KB75 | L3 | True | 500.00 | 426.246241 | 85.3 |
| 5 | KB76 | L4 | True | 1000.00 | 1074.875753 | 107.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2520.844326 | 100.8 |
| 7 | KB78 | L6 | True | 10000.00 | 9168.736855 | 91.7 |
| 8 | KB79 | L7 | True | 20000.00 | 20792.362334 | 104.0 |



BATTELLE

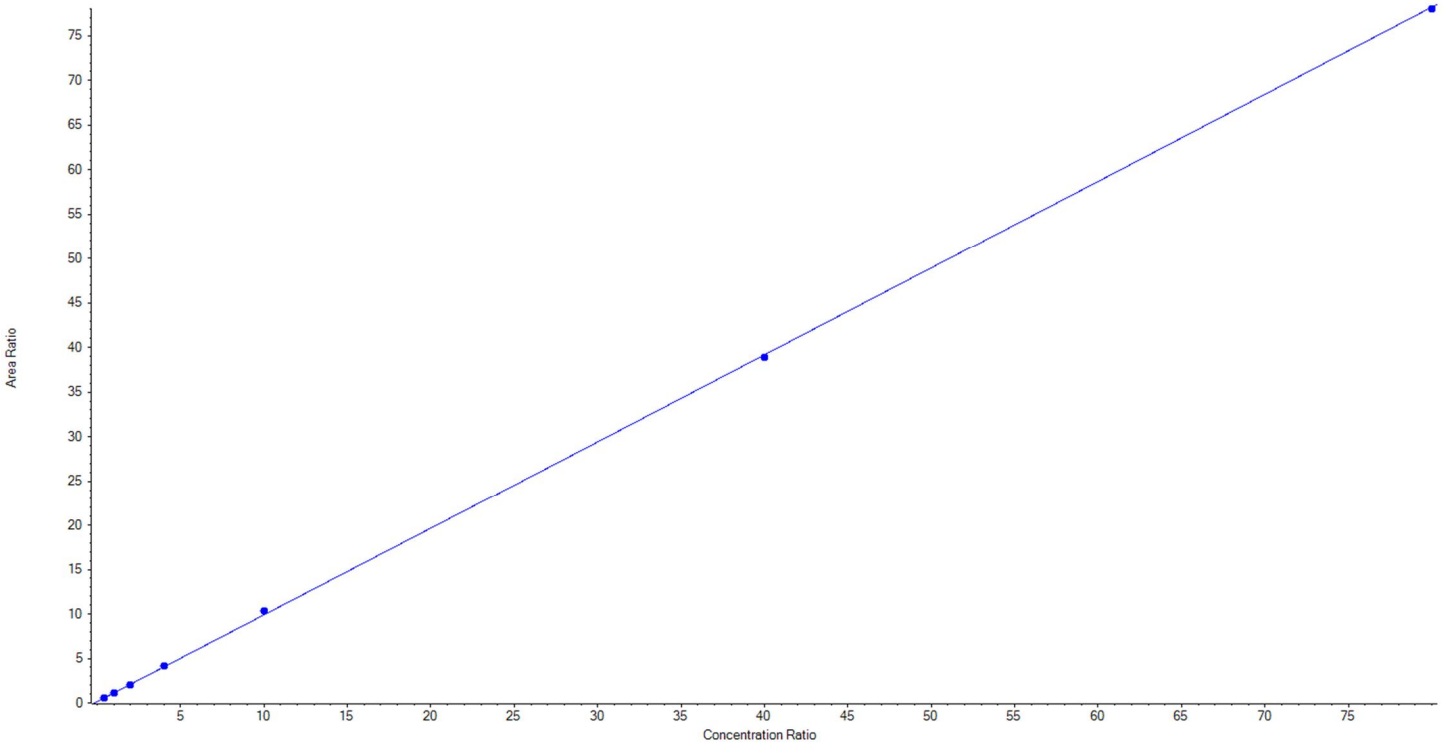
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFDA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 513.0 / 469.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C6-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.97592 x + 0.14324 (r = 0.99989) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 94.465377 | 94.5 |
| 3 | KB74 | L2 | True | 250.00 | 258.637410 | 103.5 |
| 4 | KB75 | L3 | True | 500.00 | 480.252122 | 96.1 |
| 5 | KB76 | L4 | True | 1000.00 | 1027.481247 | 102.8 |
| 6 | KB77 | L5 | True | 2500.00 | 2604.576161 | 104.2 |
| 7 | KB78 | L6 | True | 10000.00 | 9935.024946 | 99.4 |
| 8 | KB79 | L7 | True | 20000.00 | 19949.562737 | 99.8 |



BATTELLE

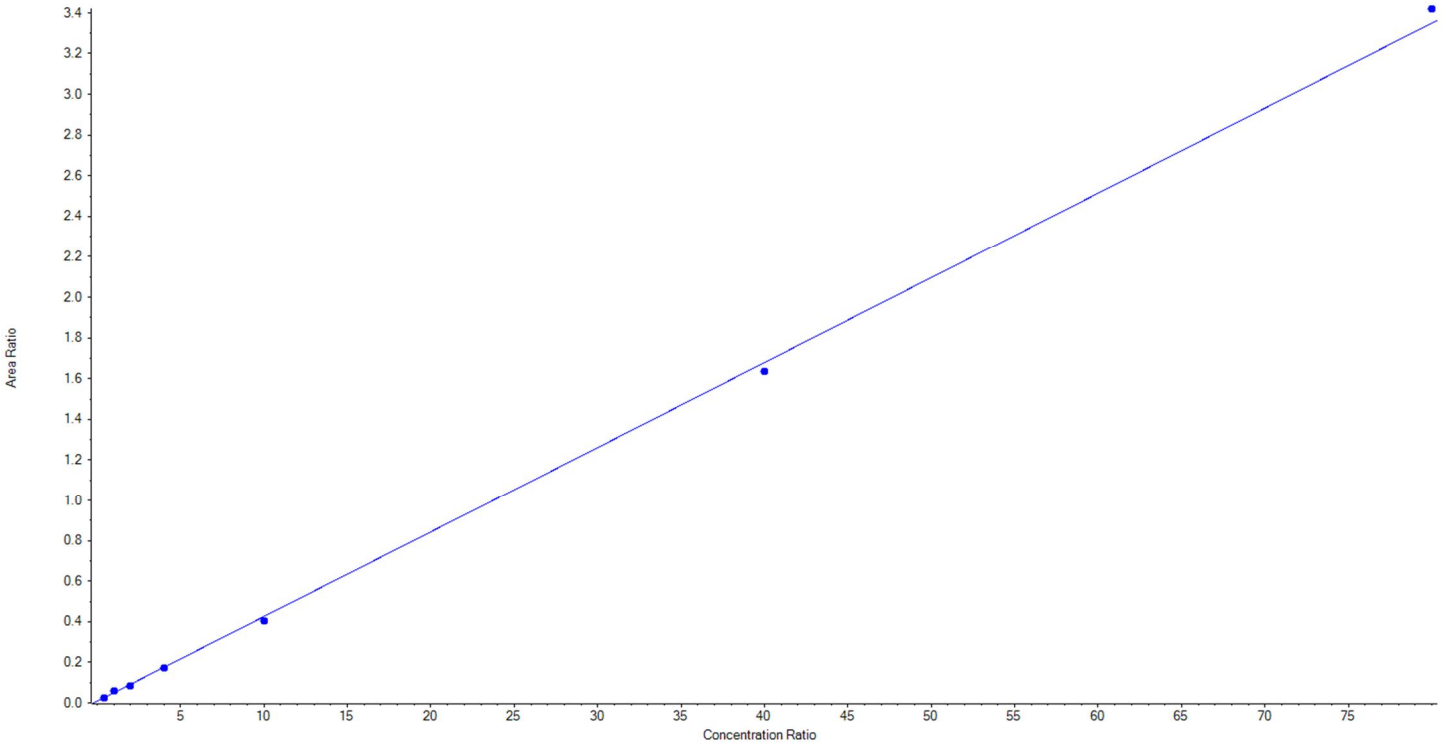
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFDA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 513.0 / 219.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C6-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.04177 x + 0.00818 (r = 0.99925) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 93.373756 | 93.4 |
| 3 | KB74 | L2 | True | 250.00 | 316.073307 | 126.4 |
| 4 | KB75 | L3 | True | 500.00 | 441.476666 | 88.3 |
| 5 | KB76 | L4 | True | 1000.00 | 973.966207 | 97.4 |
| 6 | KB77 | L5 | True | 2500.00 | 2377.530036 | 95.1 |
| 7 | KB78 | L6 | True | 10000.00 | 9733.173197 | 97.3 |
| 8 | KB79 | L7 | True | 20000.00 | 20414.406831 | 102.1 |



BATTELLE

Calibration Summary Report



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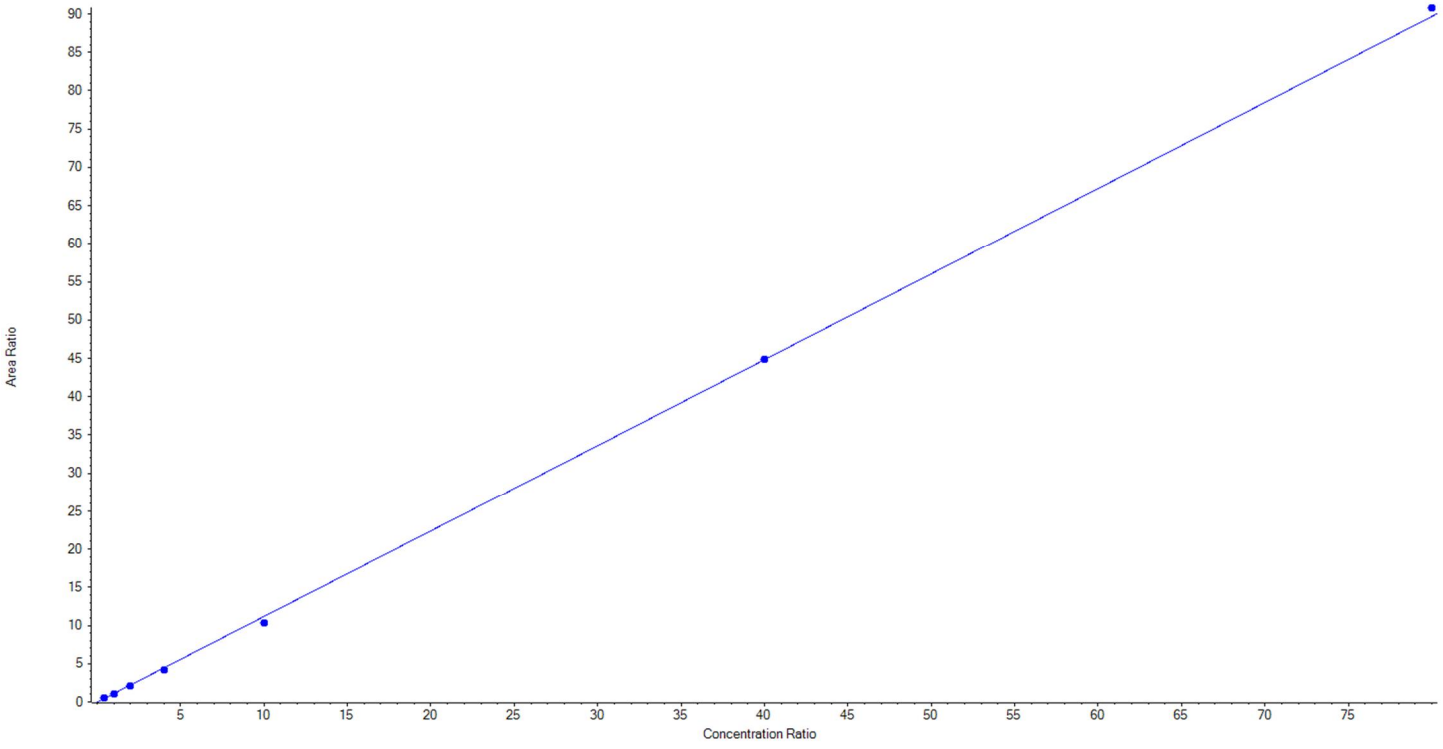
|---|---|---|---|
| **Analyte Name** | PFUnA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 563.0 / 519.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C7-PFUnA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.12134 x + -0.03387 (r = 0.99959) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 113.530574 | 113.5 |
| 3 | KB74 | L2 | True | 250.00 | 254.973875 | 102.0 |
| 4 | KB75 | L3 | True | 500.00 | 488.394243 | 97.7 |
| 5 | KB76 | L4 | True | 1000.00 | 934.962840 | 93.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2298.661218 | 92.0 |
| 7 | KB78 | L6 | True | 10000.00 | 10012.181585 | 100.1 |
| 8 | KB79 | L7 | True | 20000.00 | 20247.295664 | 101.2 |



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Calibration Summary Report



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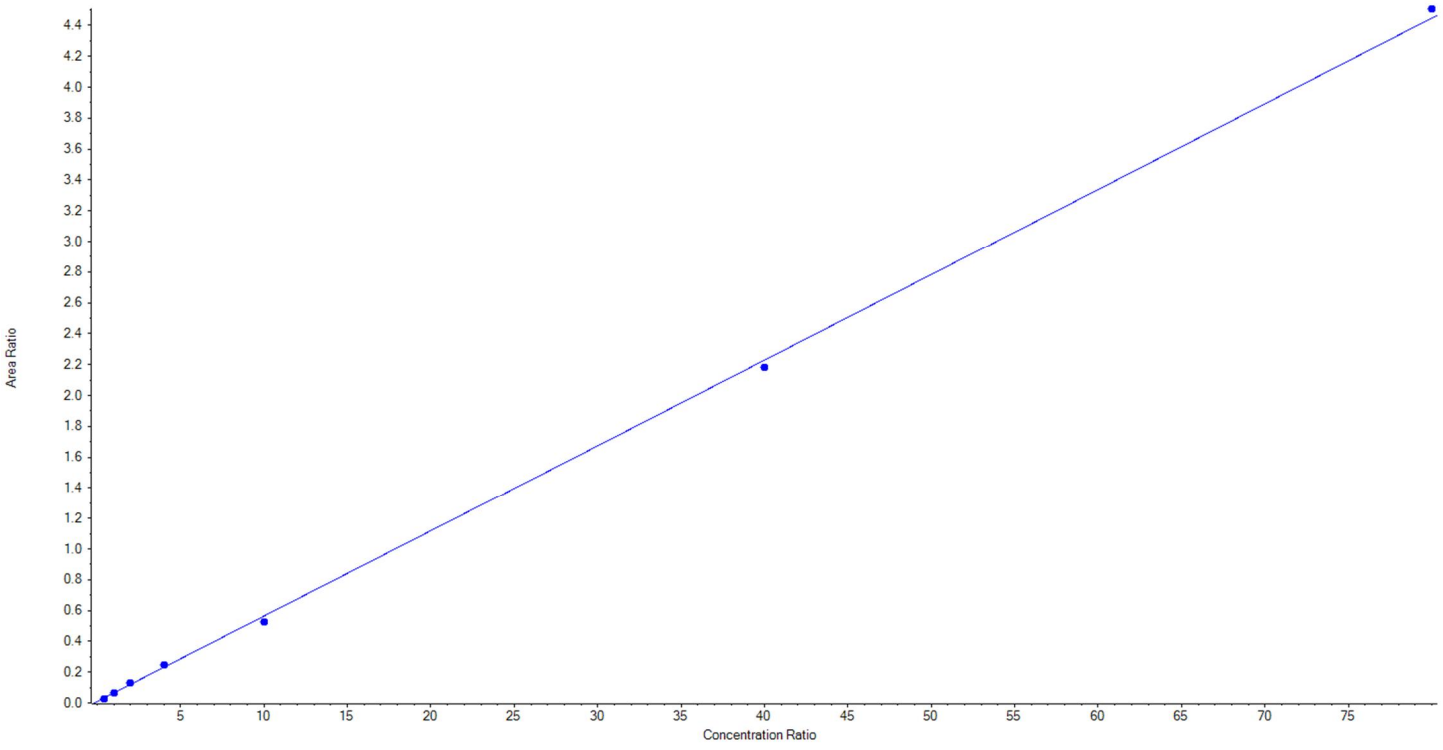
|---|---|---|---|
| **Analyte Name** | PFUnA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 563.0 / 269.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C7-PFUnA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.05547 x + 0.00954 (r = 0.99948) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 86.699412 | 86.7 |
| 3 | KB74 | L2 | True | 250.00 | 258.188695 | 103.3 |
| 4 | KB75 | L3 | True | 500.00 | 553.872032 | 110.8 |
| 5 | KB76 | L4 | True | 1000.00 | 1070.604869 | 107.1 |
| 6 | KB77 | L5 | True | 2500.00 | 2323.690587 | 93.0 |
| 7 | KB78 | L6 | True | 10000.00 | 9791.574303 | 97.9 |
| 8 | KB79 | L7 | True | 20000.00 | 20265.370102 | 101.3 |



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Calibration Summary Report

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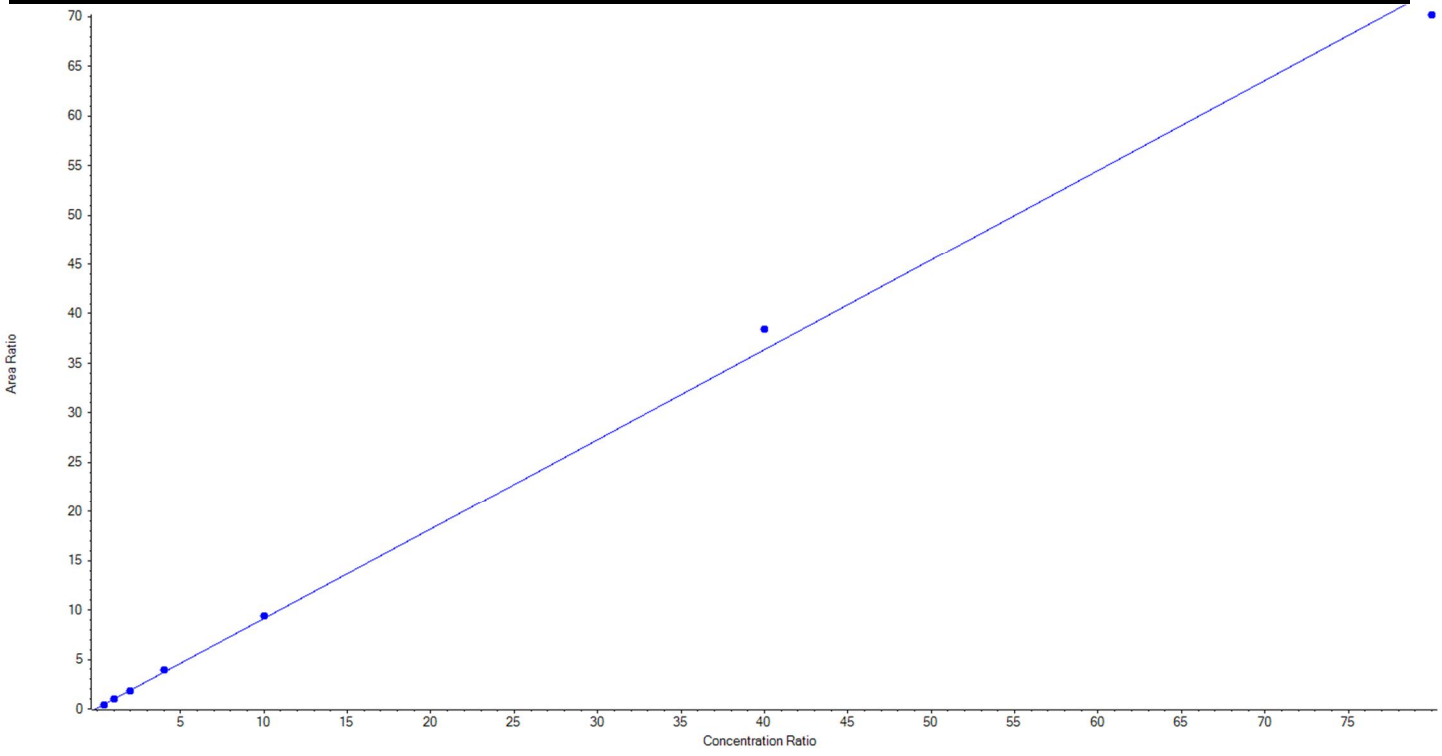
|---|---|---|---|
| **Analyte Name** | PFDoA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 613.0 / 569.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C2-PFDoA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.90707 x + 0.07891 (r = 0.99900) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 90.342589 | 90.3 |
| 3 | KB74 | L2 | True | 250.00 | 256.785352 | 102.7 |
| 4 | KB75 | L3 | True | 500.00 | 479.356212 | 95.9 |
| 5 | KB76 | L4 | True | 1000.00 | 1057.540689 | 105.8 |
| 6 | KB77 | L5 | True | 2500.00 | 2575.295281 | 103.0 |
| 7 | KB78 | L6 | True | 10000.00 | 10570.549715 | 105.7 |
| 8 | KB79 | L7 | True | 20000.00 | 19320.130163 | 96.6 |



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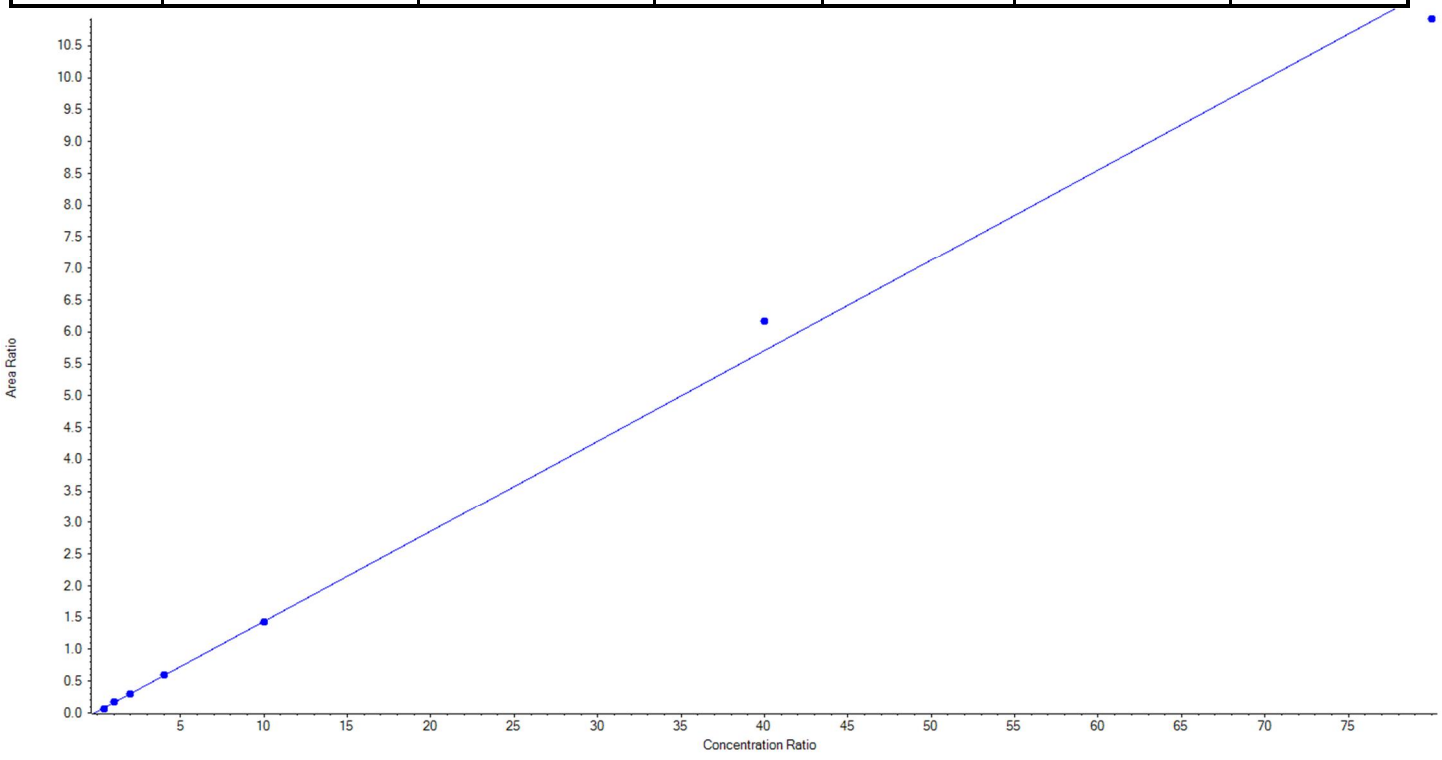
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFDoA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 613.0 / 319.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C2-PFDoA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.14223 x + 0.01853 (r = 0.99834) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 84.135088 | 84.1 |
| 3 | KB74 | L2 | True | 250.00 | 273.395698 | 109.4 |
| 4 | KB75 | L3 | True | 500.00 | 501.715915 | 100.3 |
| 5 | KB76 | L4 | True | 1000.00 | 1024.927024 | 102.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2494.864323 | 99.8 |
| 7 | KB78 | L6 | True | 10000.00 | 10804.272984 | 108.0 |
| 8 | KB79 | L7 | True | 20000.00 | 19166.688967 | 95.8 |



BATTELLE

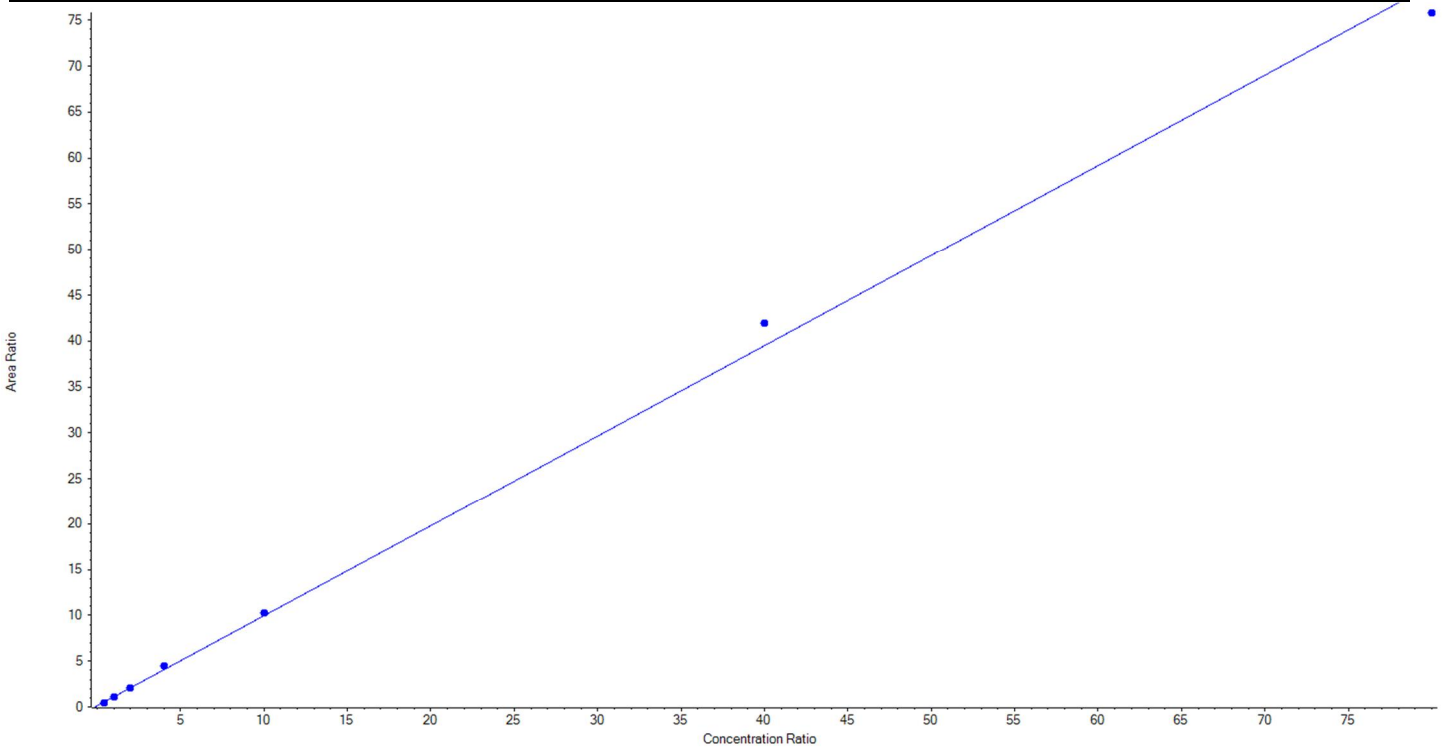
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFTrDA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 663.0 / 619.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.98435 x + 0.11959 (r = 0.99867) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 86.217436 | 86.2 |
| 3 | KB74 | L2 | True | 250.00 | 251.481551 | 100.6 |
| 4 | KB75 | L3 | True | 500.00 | 490.399853 | 98.1 |
| 5 | KB76 | L4 | True | 1000.00 | 1096.565614 | 109.7 |
| 6 | KB77 | L5 | True | 2500.00 | 2576.561926 | 103.1 |
| 7 | KB78 | L6 | True | 10000.00 | 10629.413240 | 106.3 |
| 8 | KB79 | L7 | True | 20000.00 | 19219.360380 | 96.1 |



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Calibration Summary Report

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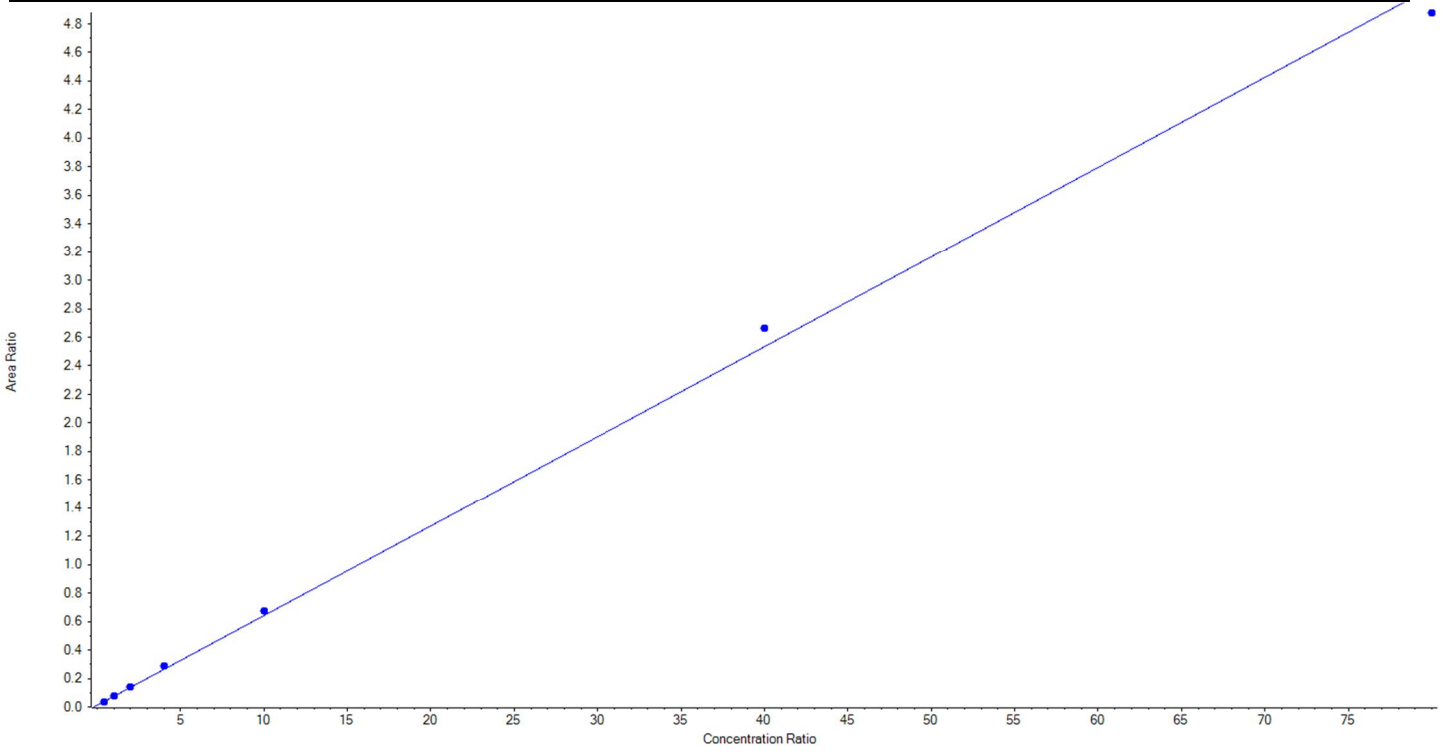
| | | | |
|---|---|---|---|
| **Analyte Name** | PFTrDA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 663.0 / 169.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.06306 x + 0.01151 (r = 0.99892) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 83.582619 | 83.6 |
| 3 | KB74 | L2 | True | 250.00 | 249.323271 | 99.7 |
| 4 | KB75 | L3 | True | 500.00 | 504.846755 | 101.0 |
| 5 | KB76 | L4 | True | 1000.00 | 1092.284116 | 109.2 |
| 6 | KB77 | L5 | True | 2500.00 | 2624.387430 | 105.0 |
| 7 | KB78 | L6 | True | 10000.00 | 10507.386672 | 105.1 |
| 8 | KB79 | L7 | True | 20000.00 | 19288.189136 | 96.4 |



BATTELLE

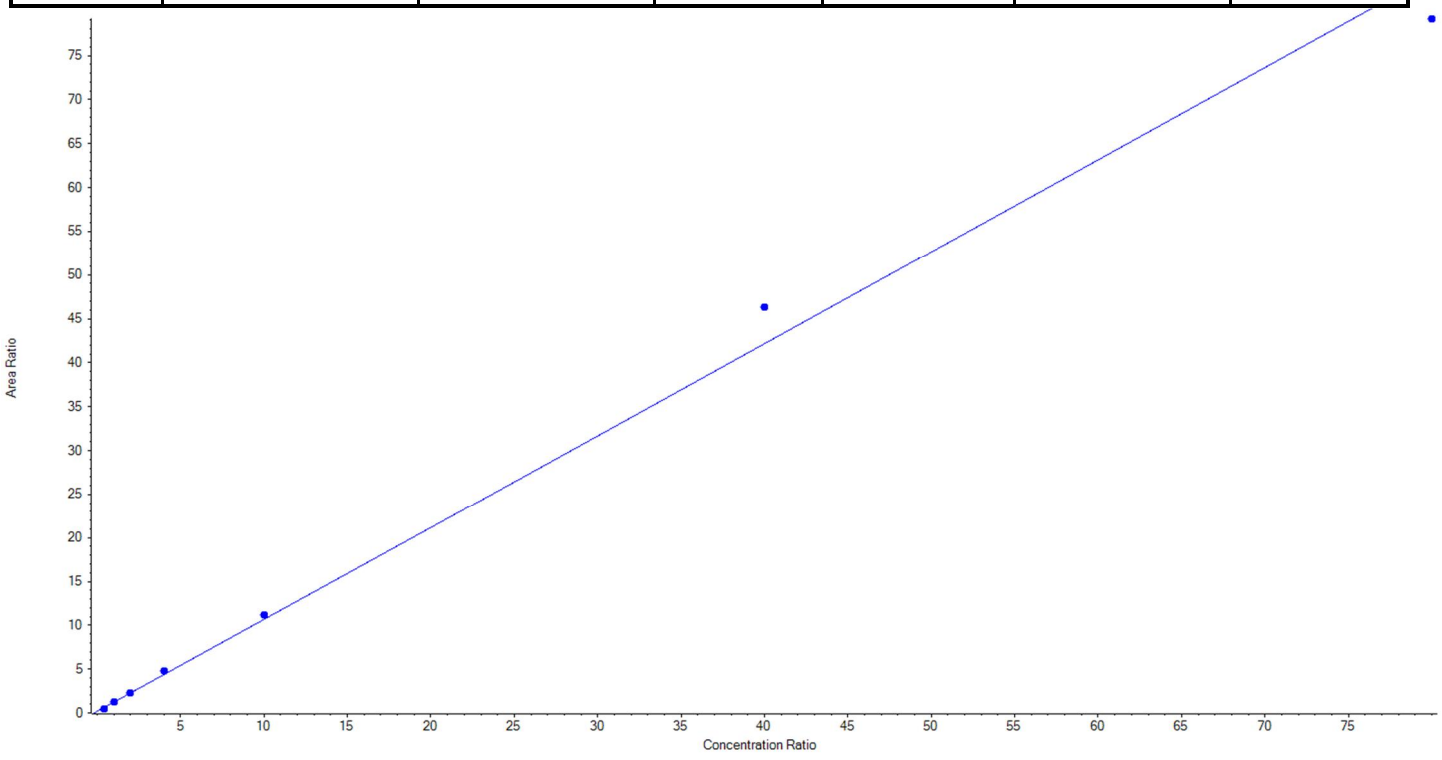
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFTeDA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 713.0 / 669.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.04953 x + 0.17809 (r = 0.99706) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 78.484390 | 78.5 |
| 3 | KB74 | L2 | True | 250.00 | 259.078255 | 103.6 |
| 4 | KB75 | L3 | True | 500.00 | 496.407600 | 99.3 |
| 5 | KB76 | L4 | True | 1000.00 | 1097.542293 | 109.8 |
| 6 | KB77 | L5 | True | 2500.00 | 2624.813810 | 105.0 |
| 7 | KB78 | L6 | True | 10000.00 | 10977.527679 | 109.8 |
| 8 | KB79 | L7 | True | 20000.00 | 18816.145973 | 94.1 |



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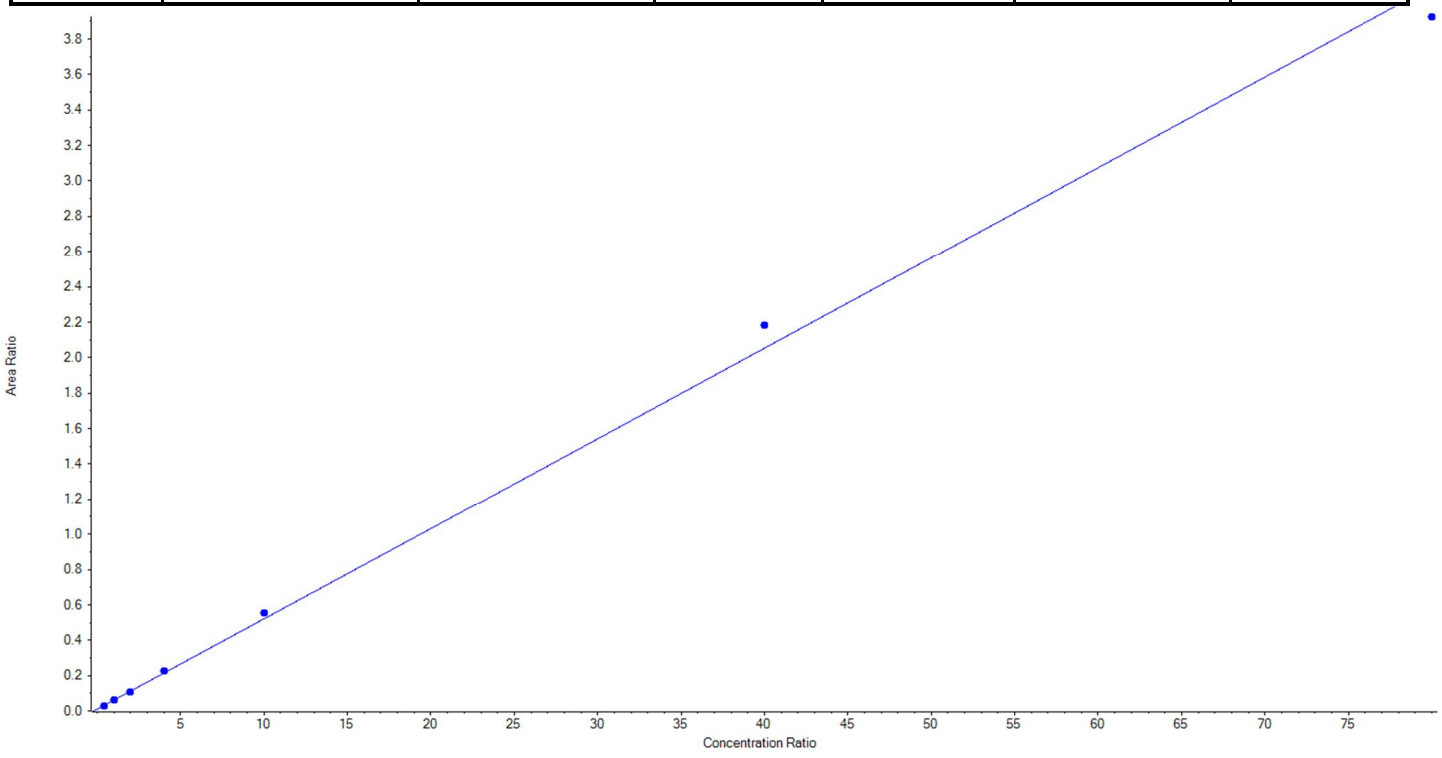
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFTeDA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 713.0 / 169.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.05108 x + 0.00990 (r = 0.99853) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 88.518156 | 88.5 |
| 3 | KB74 | L2 | True | 250.00 | 246.670742 | 98.7 |
| 4 | KB75 | L3 | True | 500.00 | 487.185882 | 97.4 |
| 5 | KB76 | L4 | True | 1000.00 | 1070.483566 | 107.1 |
| 6 | KB77 | L5 | True | 2500.00 | 2651.593899 | 106.1 |
| 7 | KB78 | L6 | True | 10000.00 | 10647.303955 | 106.5 |
| 8 | KB79 | L7 | True | 20000.00 | 19158.243800 | 95.8 |



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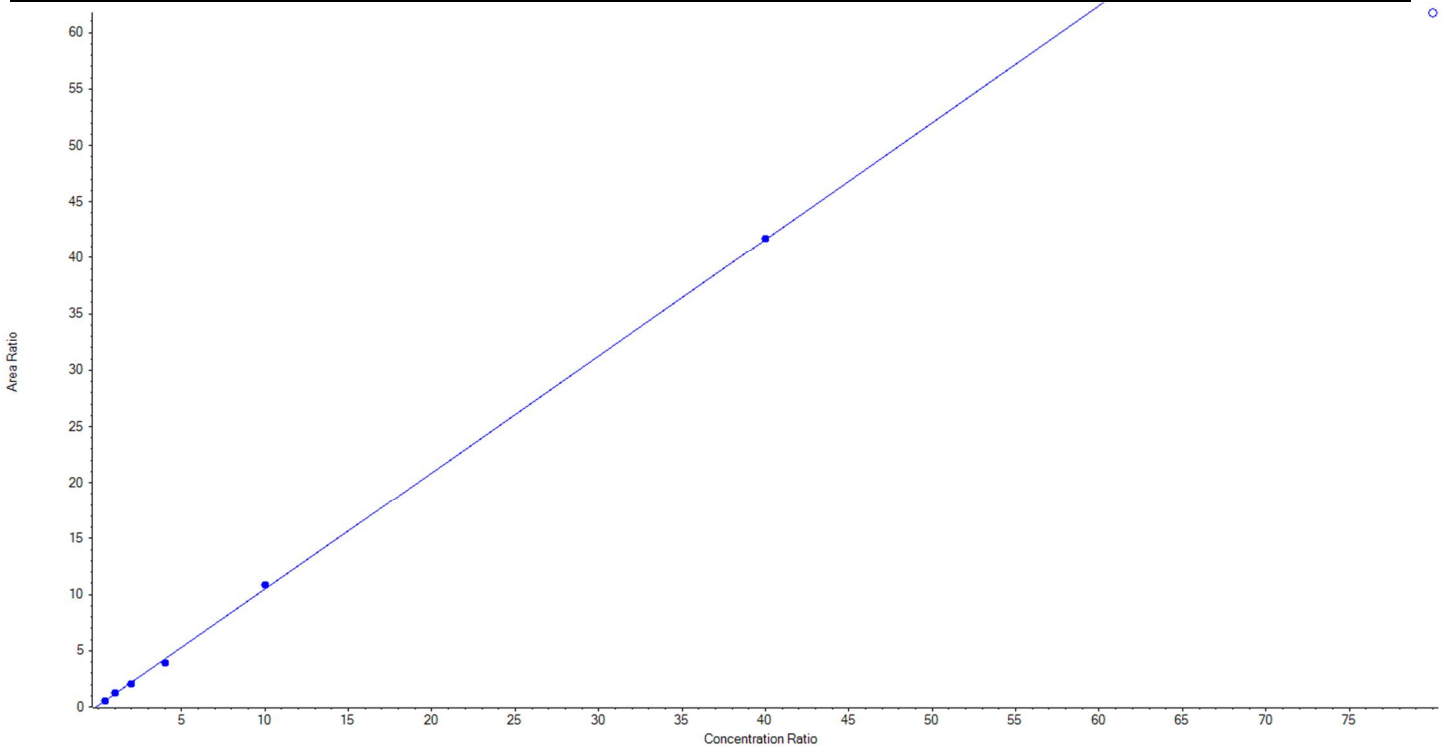
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | NMeFOSAA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 570.0 / 419.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | d3-MeFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.03780 x + 0.11689 (r = 0.99930) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 107.102441 | 107.1 |
| 3 | KB74 | L2 | True | 250.00 | 268.430538 | 107.4 |
| 4 | KB75 | L3 | True | 500.00 | 457.235760 | 91.5 |
| 5 | KB76 | L4 | True | 1000.00 | 904.915086 | 90.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2582.117385 | 103.3 |
| 7 | KB78 | L6 | True | 10000.00 | 10030.198790 | 100.3 |
| 8 | KB79 | L7 | False | 20000.00 | 14845.399298 | 74.2 |



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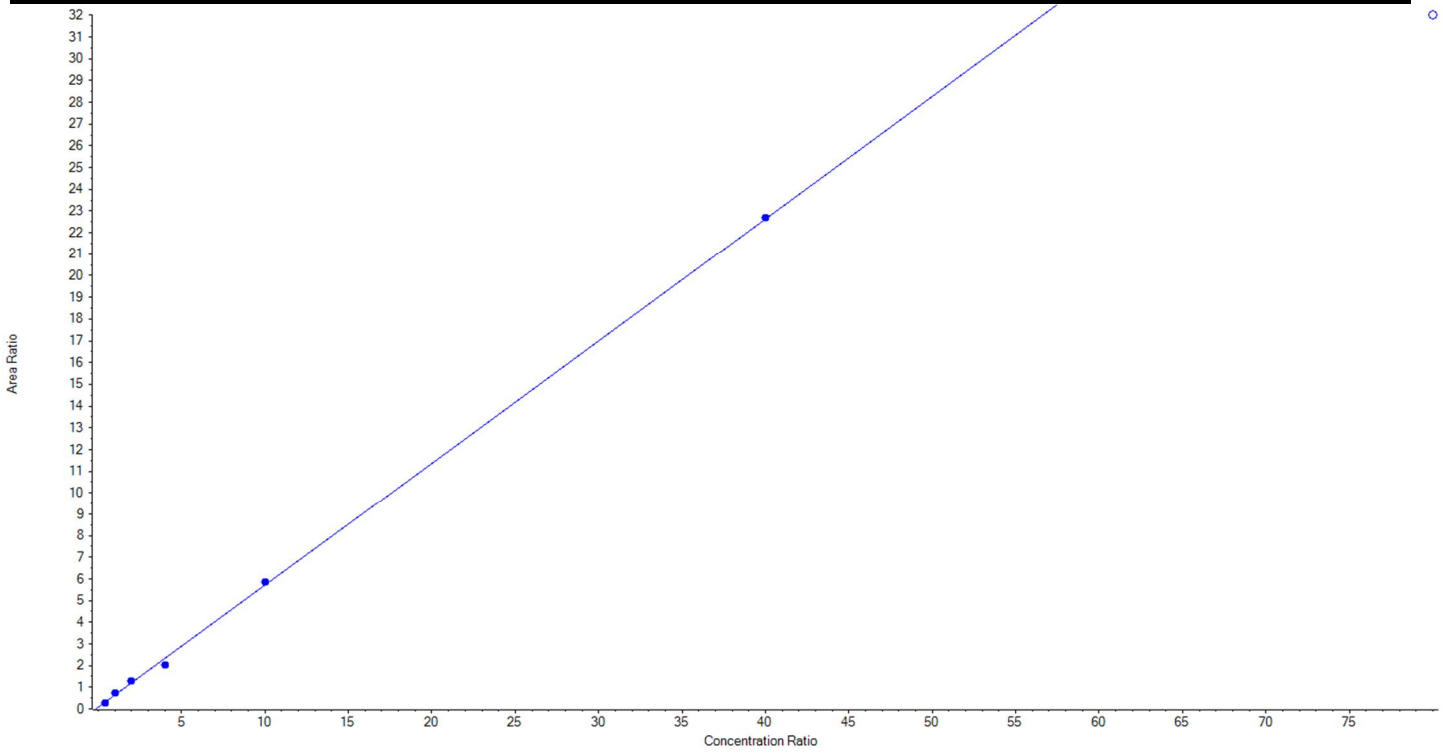
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | NMeFOSAA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 570.0 / 512.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | d3-MeFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.56389 x + 0.07797 (r = 0.99876) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 89.030106 | 89.0 |
| 3 | KB74 | L2 | True | 250.00 | 292.103693 | 116.8 |
| 4 | KB75 | L3 | True | 500.00 | 528.156016 | 105.6 |
| 5 | KB76 | L4 | True | 1000.00 | 860.552854 | 86.1 |
| 6 | KB77 | L5 | True | 2500.00 | 2554.678504 | 102.2 |
| 7 | KB78 | L6 | True | 10000.00 | 10025.478827 | 100.3 |
| 8 | KB79 | L7 | False | 20000.00 | 14160.840325 | 70.8 |



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Calibration Summary Report

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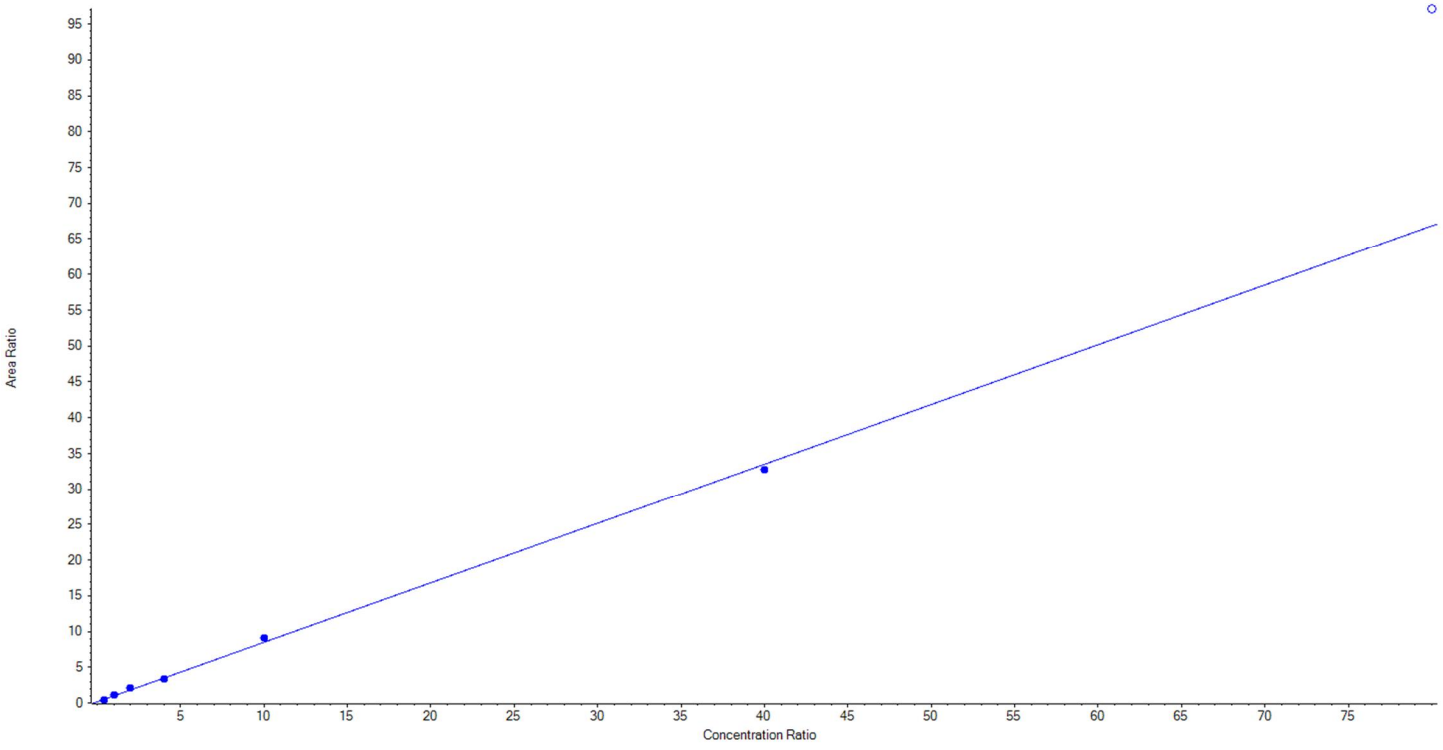
|---|---|---|---|
| **Analyte Name** | NEtFOSAA_1 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 584.0 / 419.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | d5-EtFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.83391 x + 0.14406 (r = 0.99844) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 75.985282 | 76.0 |
| 3 | KB74 | L2 | True | 250.00 | 271.680459 | 108.7 |
| 4 | KB75 | L3 | True | 500.00 | 566.738067 | 113.4 |
| 5 | KB76 | L4 | True | 1000.00 | 963.645894 | 96.4 |
| 6 | KB77 | L5 | True | 2500.00 | 2697.027612 | 107.9 |
| 7 | KB78 | L6 | True | 10000.00 | 9774.922686 | 97.8 |
| 8 | KB79 | L7 | False | 20000.00 | 29071.092449 | 145.4 |



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Calibration Summary Report

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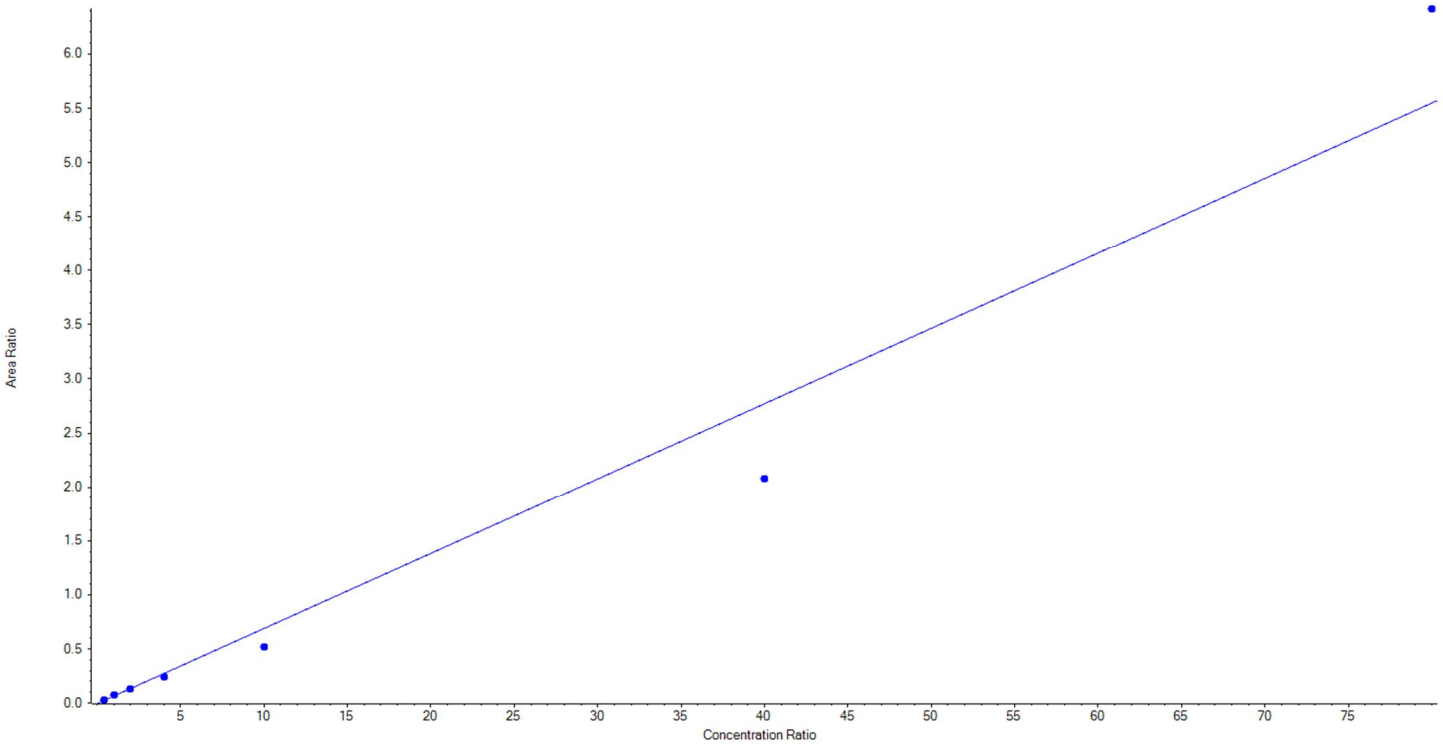
| | | | |
|---|---|---|---|
| **Analyte Name** | NEtFOSAA_2 | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 584.0 / 483.0 | **Result Table** | 18-0580_BASE |
| **Internal Standard** | d5-EtFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.06942 x + -0.00591 (r = 0.98043) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 127.372344 | 127.4 |
| 3 | KB74 | L2 | True | 250.00 | 291.445838 | 116.6 |
| 4 | KB75 | L3 | True | 500.00 | 502.560351 | 100.5 |
| 5 | KB76 | L4 | True | 1000.00 | 887.808331 | 88.8 |
| 6 | KB77 | L5 | True | 2500.00 | 1898.363476 | 75.9 |
| 7 | KB78 | L6 | True | 10000.00 | 7521.926049 | 75.2 |
| 8 | KB79 | L7 | True | 20000.00 | 23120.523610 | 115.6 |



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Calibration Summary Report

Created with Analyst Reporter
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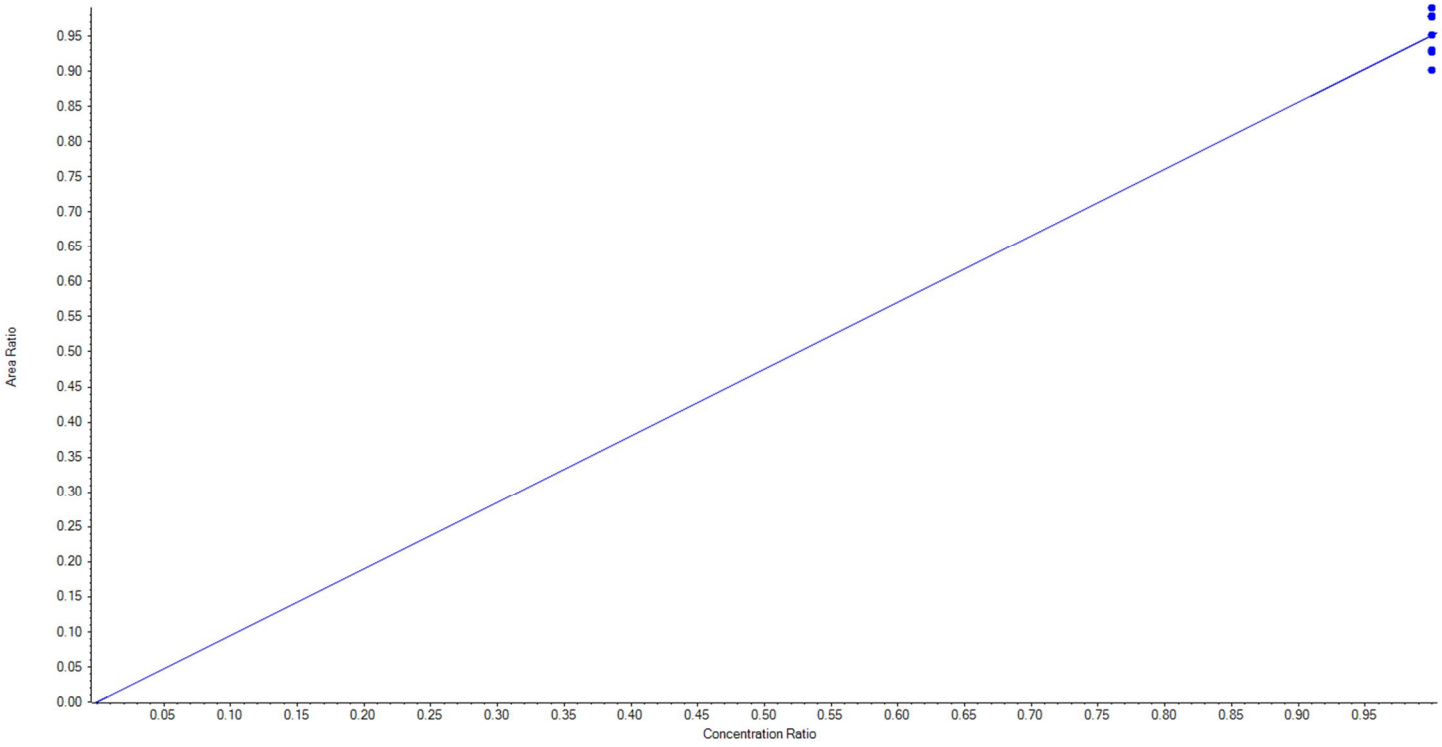
| | | | |
|---|---|---|---|
| **Analyte Name** | 13C2-PFDoA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 615.0 / 570.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.95072 x (std. dev. = 0.03276) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 257.026376 | 102.8 |
| 3 | KB74 | L2 | True | 250.00 | 237.007702 | 94.8 |
| 4 | KB75 | L3 | True | 250.00 | 250.257512 | 100.1 |
| 5 | KB76 | L4 | True | 250.00 | 243.725423 | 97.5 |
| 6 | KB77 | L5 | True | 250.00 | 257.160313 | 102.9 |
| 7 | KB78 | L6 | True | 250.00 | 244.514733 | 97.8 |
| 8 | KB79 | L7 | True | 250.00 | 260.307941 | 104.1 |



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Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:33 PM

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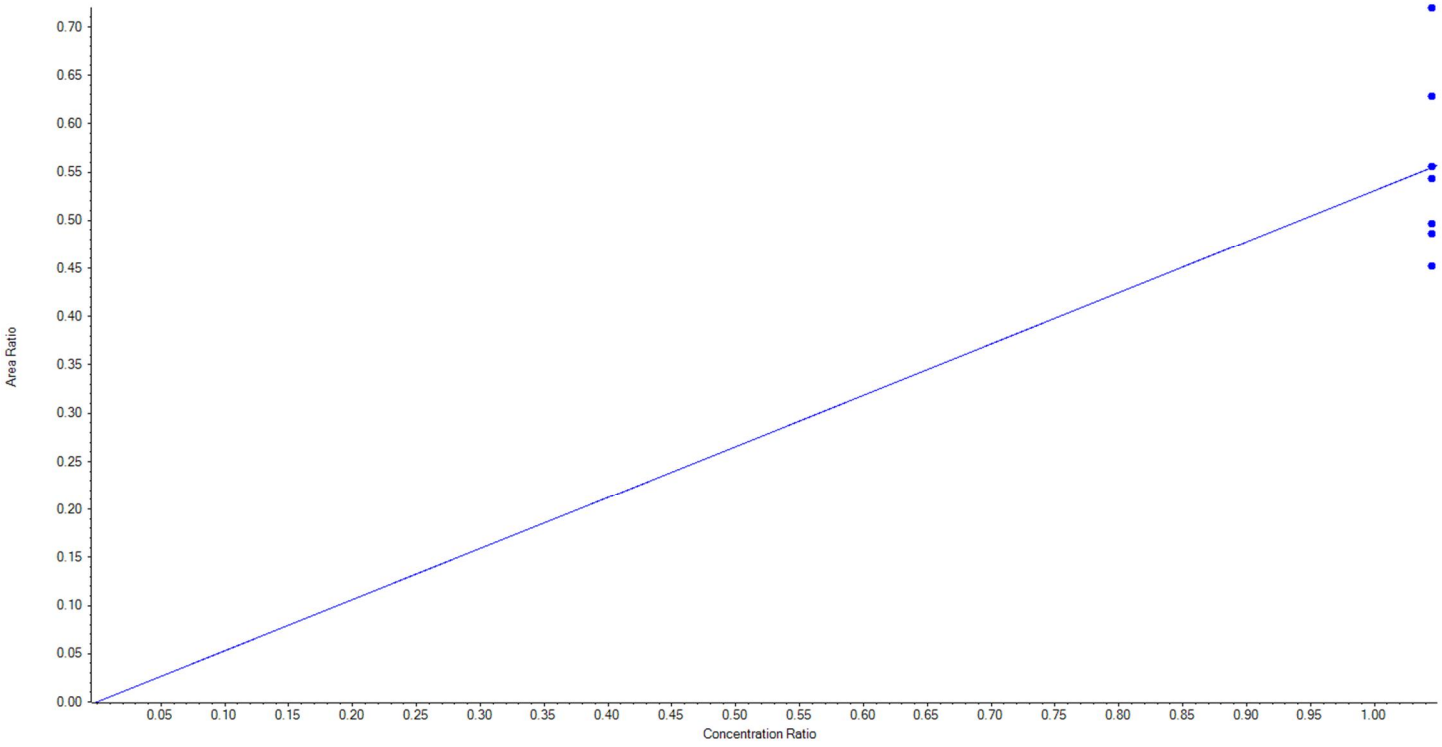
|---|---|---|---|
| **Analyte Name** | d3-MeFOSAA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 573.0 / 419.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.53083 x (std. dev. = 0.08831) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 203.857036 | 81.5 |
| 3 | KB74 | L2 | True | 250.00 | 219.329919 | 87.7 |
| 4 | KB75 | L3 | True | 250.00 | 245.027875 | 98.0 |
| 5 | KB76 | L4 | True | 250.00 | 282.973318 | 113.2 |
| 6 | KB77 | L5 | True | 250.00 | 224.069858 | 89.6 |
| 7 | KB78 | L6 | True | 250.00 | 250.413797 | 100.2 |
| 8 | KB79 | L7 | True | 250.00 | 324.328198 | 129.7 |



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Calibration Summary Report

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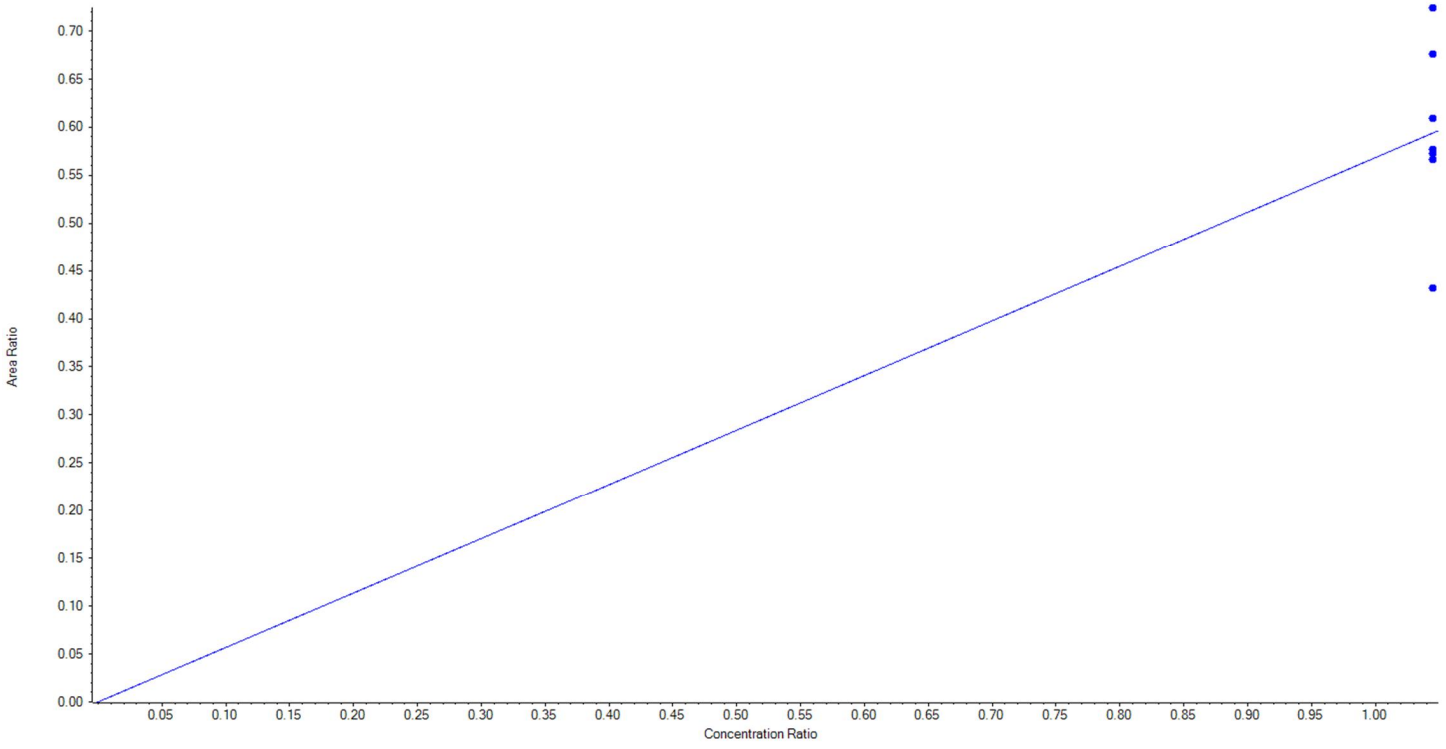
|---|---|---|---|
| **Analyte Name** | d5-EtFOSAA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 589.0 / 419.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.56844 x (std. dev. = 0.08875) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 241.169310 | 96.5 |
| 3 | KB74 | L2 | True | 250.00 | 238.542839 | 95.4 |
| 4 | KB75 | L3 | True | 250.00 | 242.821176 | 97.1 |
| 5 | KB76 | L4 | True | 250.00 | 304.718233 | 121.9 |
| 6 | KB77 | L5 | True | 250.00 | 256.589600 | 102.6 |
| 7 | KB78 | L6 | True | 250.00 | 284.409798 | 113.8 |
| 8 | KB79 | L7 | True | 250.00 | 181.749043 | 72.7 |



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Calibration Summary Report

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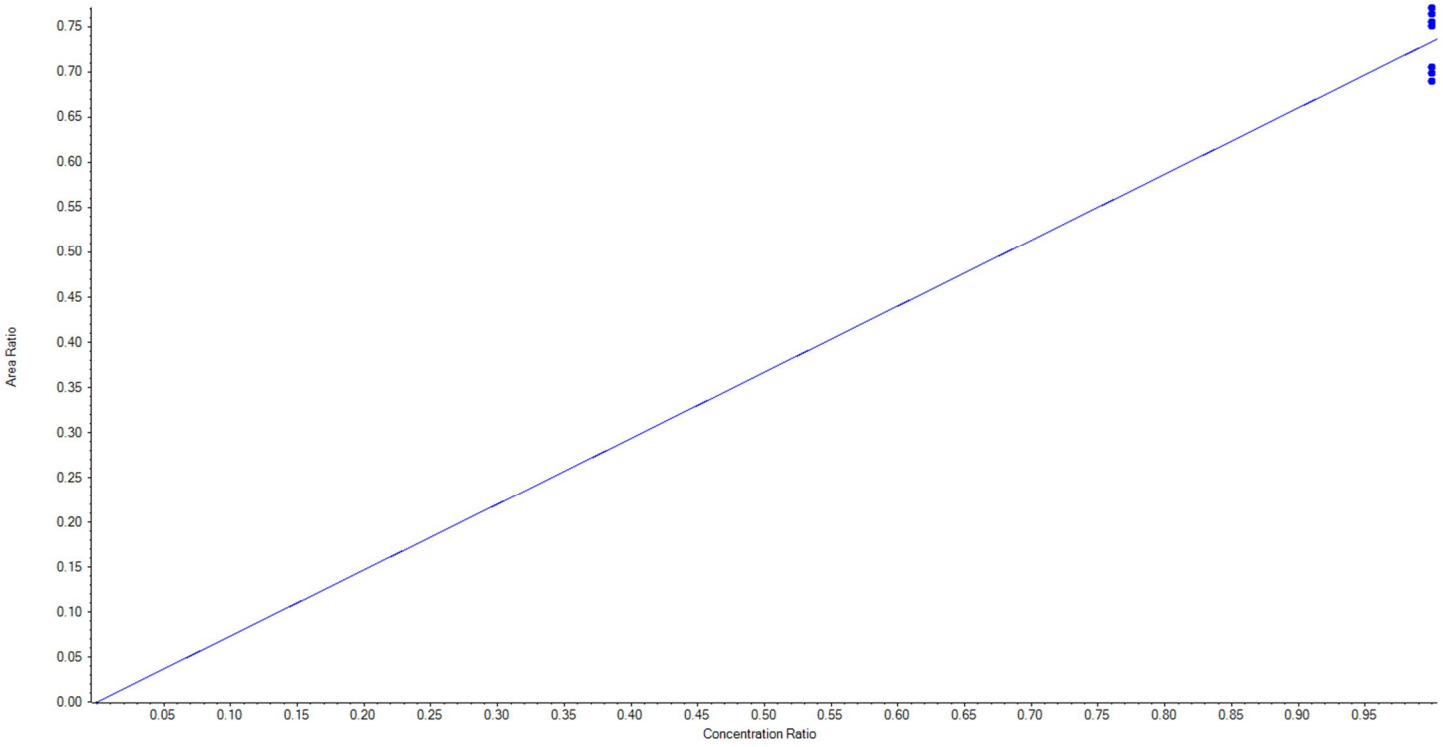
|---|---|---|---|
| **Analyte Name** | 13C5-PFHxA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 318.0 / 273.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.73362 x (std. dev. = 0.03418) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 240.445389 | 96.2 |
| 3 | KB74 | L2 | True | 250.00 | 257.221888 | 102.9 |
| 4 | KB75 | L3 | True | 250.00 | 235.113887 | 94.1 |
| 5 | KB76 | L4 | True | 250.00 | 260.460366 | 104.2 |
| 6 | KB77 | L5 | True | 250.00 | 262.706500 | 105.1 |
| 7 | KB78 | L6 | True | 250.00 | 255.982162 | 102.4 |
| 8 | KB79 | L7 | True | 250.00 | 238.069808 | 95.2 |



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Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:05:33 PM

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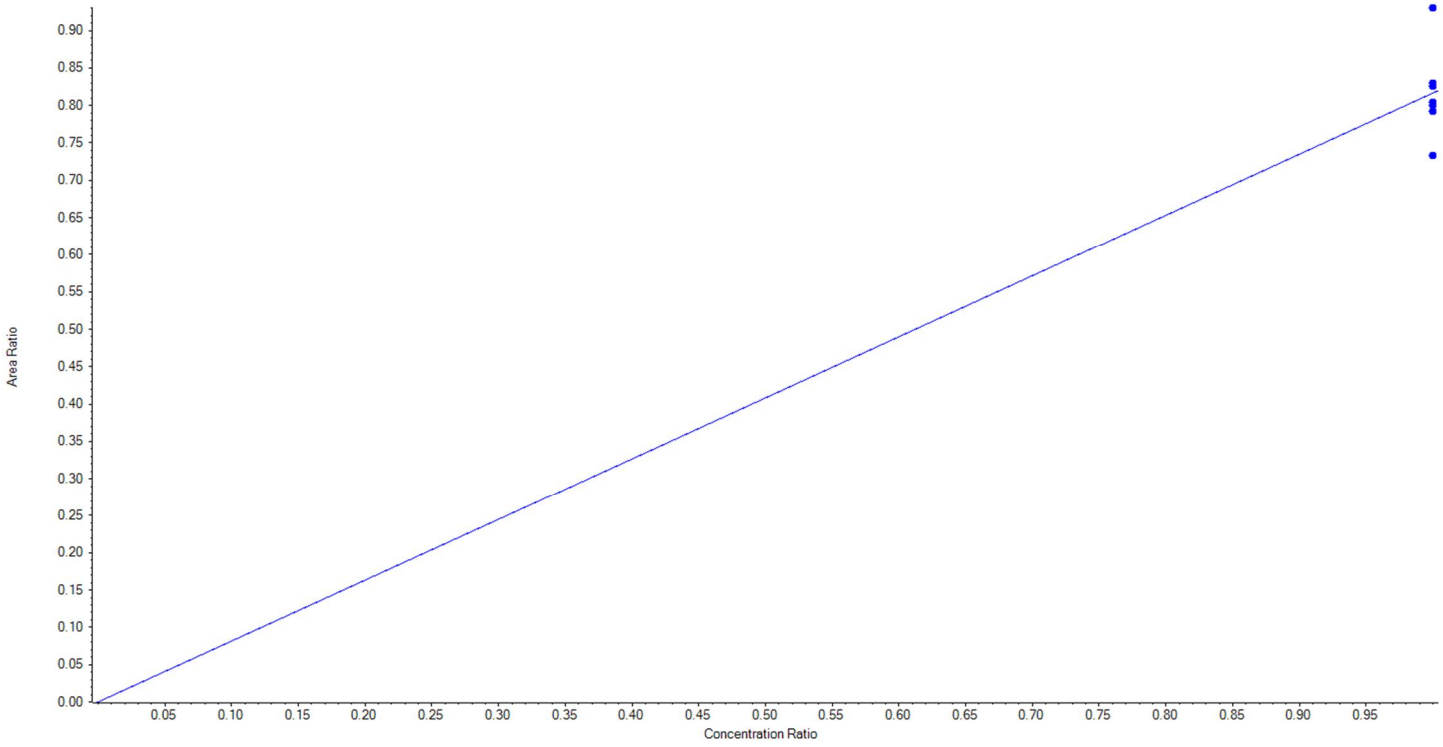
|---|---|---|---|
| **Analyte Name** | 13C4-PFHpA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 367.0 / 322.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.81653 x (std. dev. = 0.05932) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 245.085528 | 98.0 |
| 3 | KB74 | L2 | True | 250.00 | 224.592408 | 89.8 |
| 4 | KB75 | L3 | True | 250.00 | 252.780831 | 101.1 |
| 5 | KB76 | L4 | True | 250.00 | 246.089124 | 98.4 |
| 6 | KB77 | L5 | True | 250.00 | 284.809006 | 113.9 |
| 7 | KB78 | L6 | True | 250.00 | 254.204284 | 101.7 |
| 8 | KB79 | L7 | True | 250.00 | 242.438820 | 97.0 |



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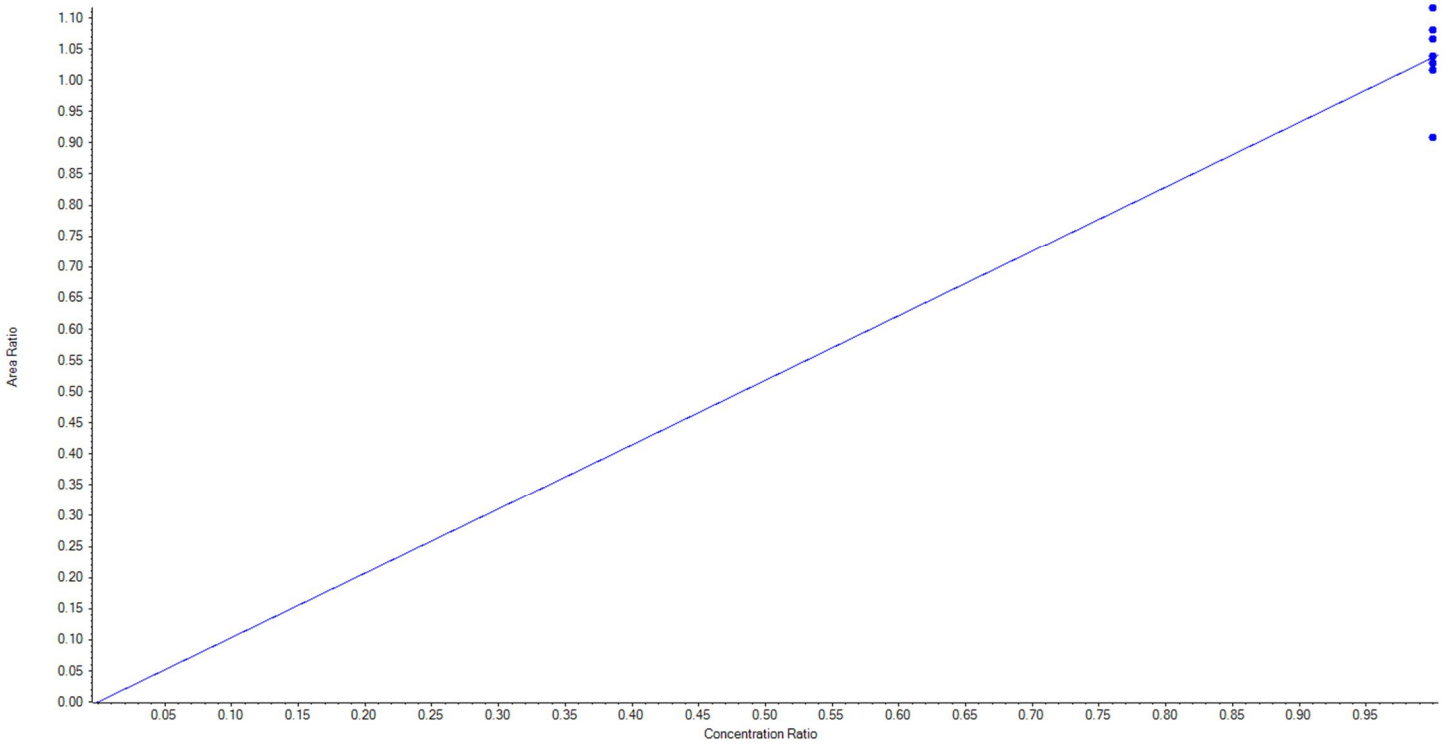
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C8-PFOA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 421.0 / 376.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.03645 x (std. dev. = 0.06594) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 250.591660 | 100.2 |
| 3 | KB74 | L2 | True | 250.00 | 257.345152 | 102.9 |
| 4 | KB75 | L3 | True | 250.00 | 245.152136 | 98.1 |
| 5 | KB76 | L4 | True | 250.00 | 269.215522 | 107.7 |
| 6 | KB77 | L5 | True | 250.00 | 260.699943 | 104.3 |
| 7 | KB78 | L6 | True | 250.00 | 247.843263 | 99.1 |
| 8 | KB79 | L7 | True | 250.00 | 219.152324 | 87.7 |



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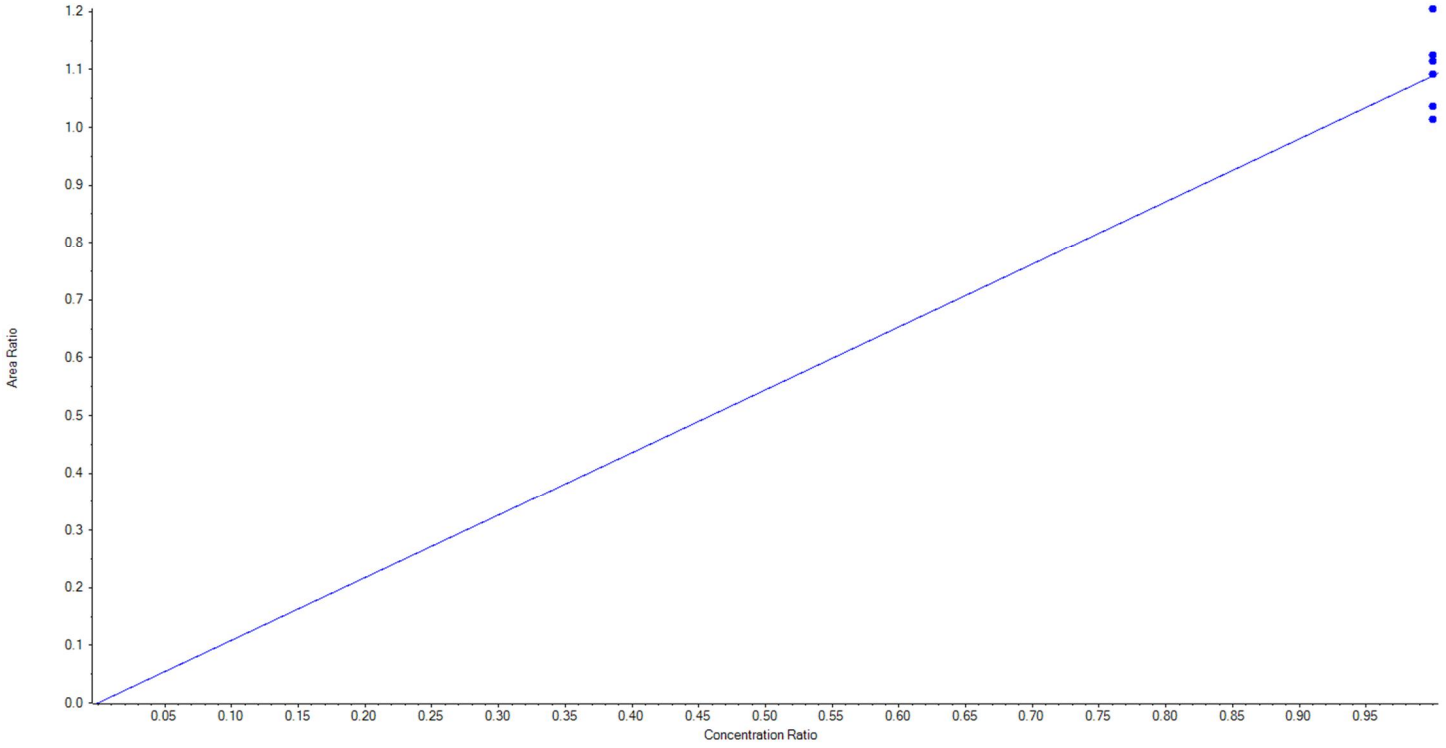
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C9-PFNA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 472.0 / 427.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.08906 x (std. dev. = 0.06665) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 237.955901 | 95.2 |
| 3 | KB74 | L2 | True | 250.00 | 255.853298 | 102.3 |
| 4 | KB75 | L3 | True | 250.00 | 237.932254 | 95.2 |
| 5 | KB76 | L4 | True | 250.00 | 250.842865 | 100.3 |
| 6 | KB77 | L5 | True | 250.00 | 276.607067 | 110.6 |
| 7 | KB78 | L6 | True | 250.00 | 258.220226 | 103.3 |
| 8 | KB79 | L7 | True | 250.00 | 232.588389 | 93.0 |



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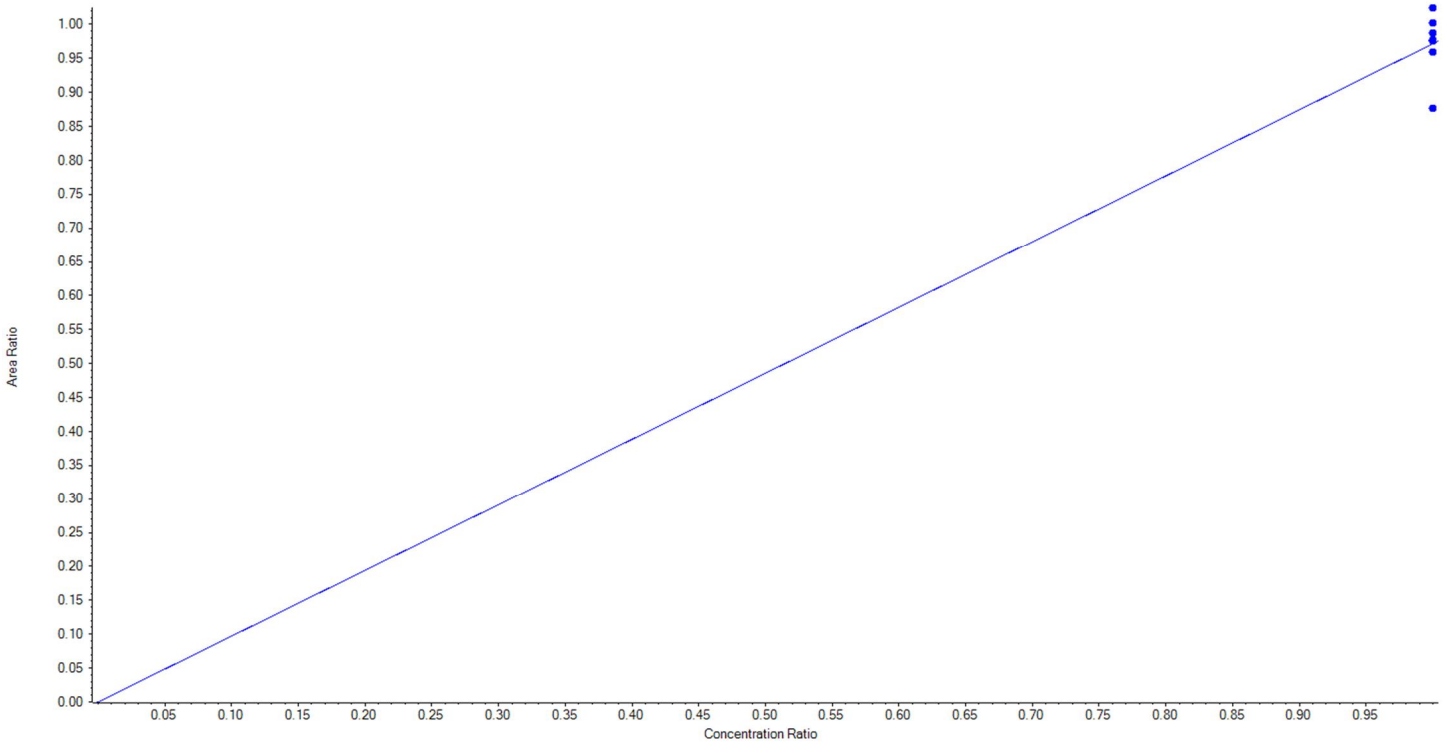
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C6-PFDA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 519.0 / 474.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.97151 x (std. dev. = 0.04665) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 253.901169 | 101.6 |
| 3 | KB74 | L2 | True | 250.00 | 251.017617 | 100.4 |
| 4 | KB75 | L3 | True | 250.00 | 263.556741 | 105.4 |
| 5 | KB76 | L4 | True | 250.00 | 251.323403 | 100.5 |
| 6 | KB77 | L5 | True | 250.00 | 246.871563 | 98.8 |
| 7 | KB78 | L6 | True | 250.00 | 257.695950 | 103.1 |
| 8 | KB79 | L7 | True | 250.00 | 225.633557 | 90.3 |



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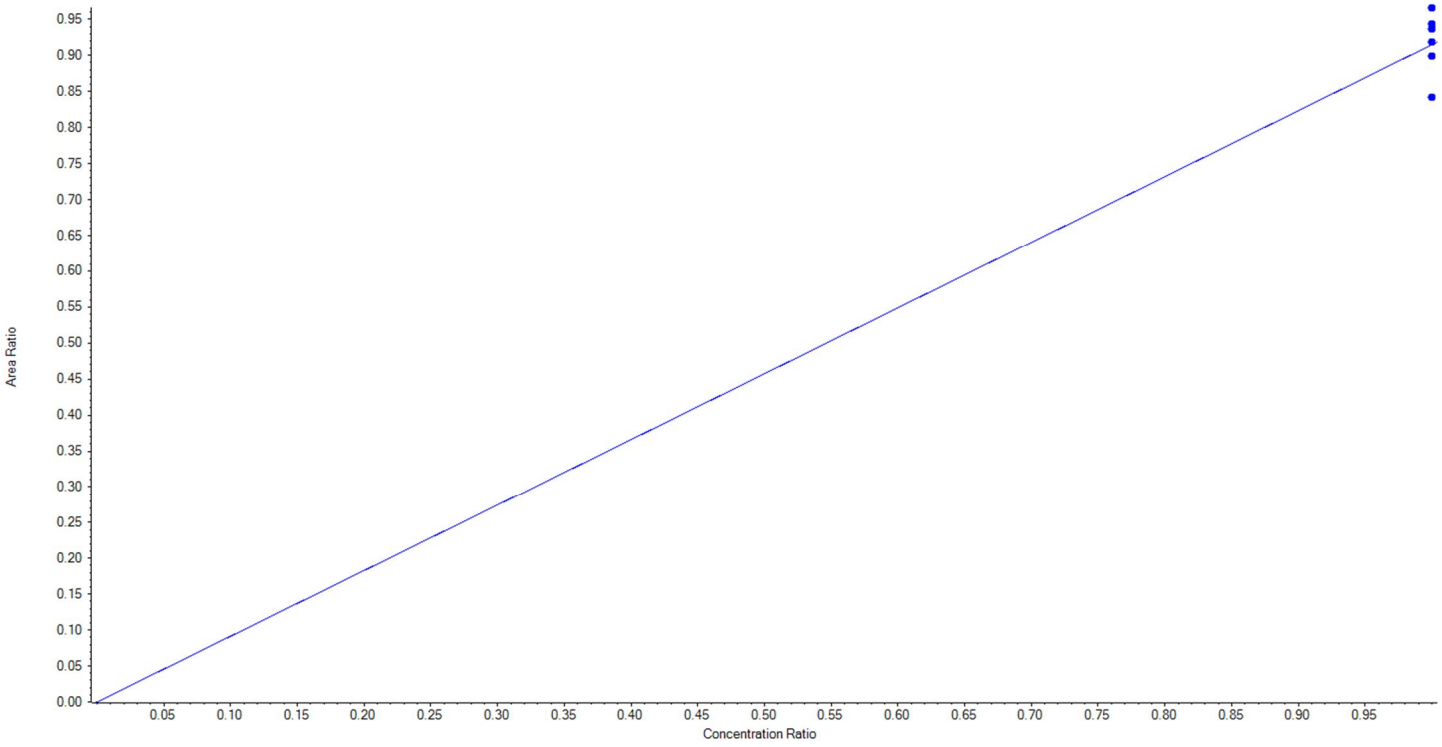
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C7-PFUnA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 570.0 / 525.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.91482 x (std. dev. = 0.04033) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 245.626378 | 98.3 |
| 3 | KB74 | L2 | True | 250.00 | 250.847231 | 100.3 |
| 4 | KB75 | L3 | True | 250.00 | 256.095167 | 102.4 |
| 5 | KB76 | L4 | True | 250.00 | 257.797381 | 103.1 |
| 6 | KB77 | L5 | True | 250.00 | 263.937646 | 105.6 |
| 7 | KB78 | L6 | True | 250.00 | 245.635835 | 98.3 |
| 8 | KB79 | L7 | True | 250.00 | 230.060363 | 92.0 |



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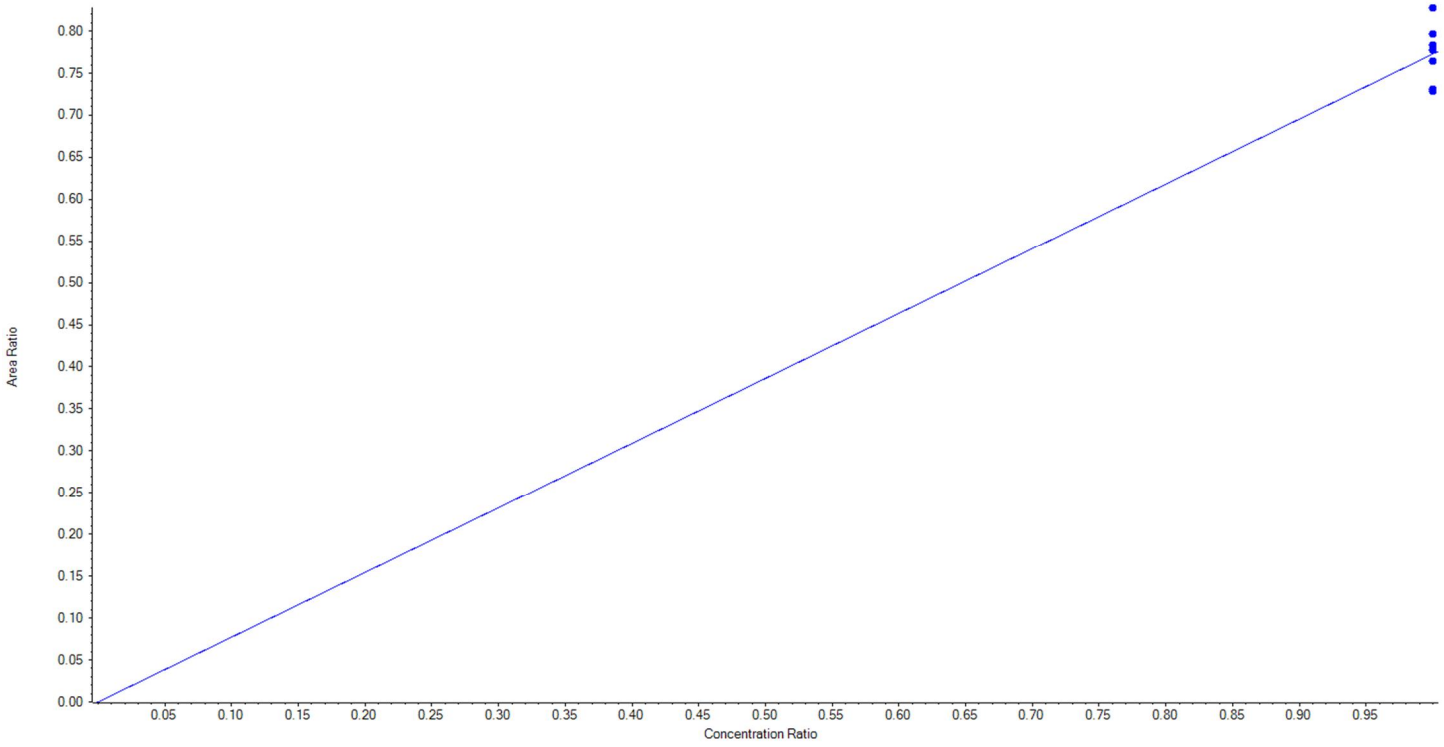
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C2-PFTeDA | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 715.0 / 670.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.77268 x (std. dev. = 0.03532) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 251.649732 | 100.7 |
| 3 | KB74 | L2 | True | 250.00 | 236.282254 | 94.5 |
| 4 | KB75 | L3 | True | 250.00 | 257.584012 | 103.0 |
| 5 | KB76 | L4 | True | 250.00 | 235.771436 | 94.3 |
| 6 | KB77 | L5 | True | 250.00 | 247.449420 | 99.0 |
| 7 | KB78 | L6 | True | 250.00 | 253.550328 | 101.4 |
| 8 | KB79 | L7 | True | 250.00 | 267.712819 | 107.1 |



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Calibration Summary Report



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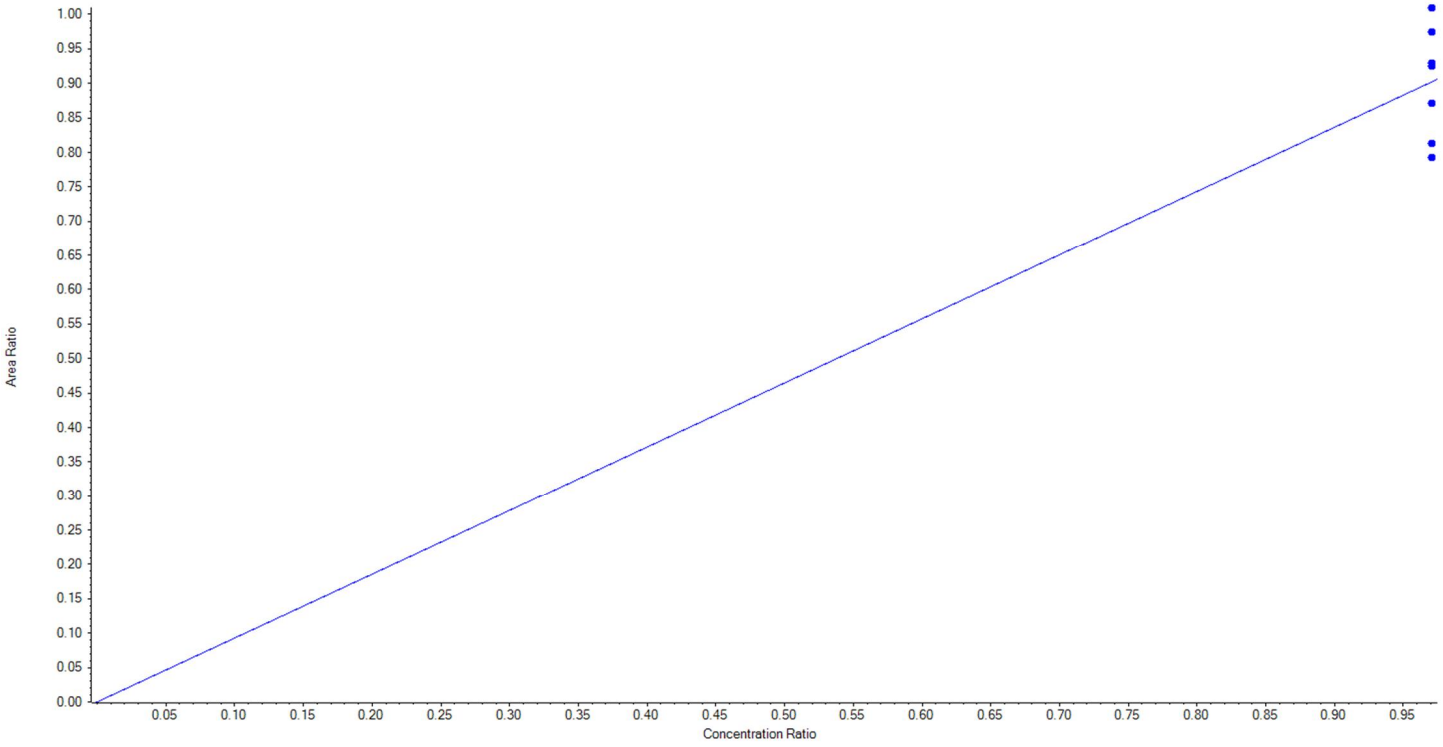
|---|---|---|---|
| **Analyte Name** | 13C3-PFBS | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 302.0 / 99.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.92948 x (std. dev. = 0.08295) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 232.25 | 204.223666 | 87.9 |
| 3 | KB74 | L2 | True | 232.25 | 224.167026 | 96.5 |
| 4 | KB75 | L3 | True | 232.25 | 209.154156 | 90.1 |
| 5 | KB76 | L4 | True | 232.25 | 239.306577 | 103.0 |
| 6 | KB77 | L5 | True | 232.25 | 238.174228 | 102.6 |
| 7 | KB78 | L6 | True | 232.25 | 250.893858 | 108.0 |
| 8 | KB79 | L7 | True | 232.25 | 259.830489 | 111.9 |



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Calibration Summary Report

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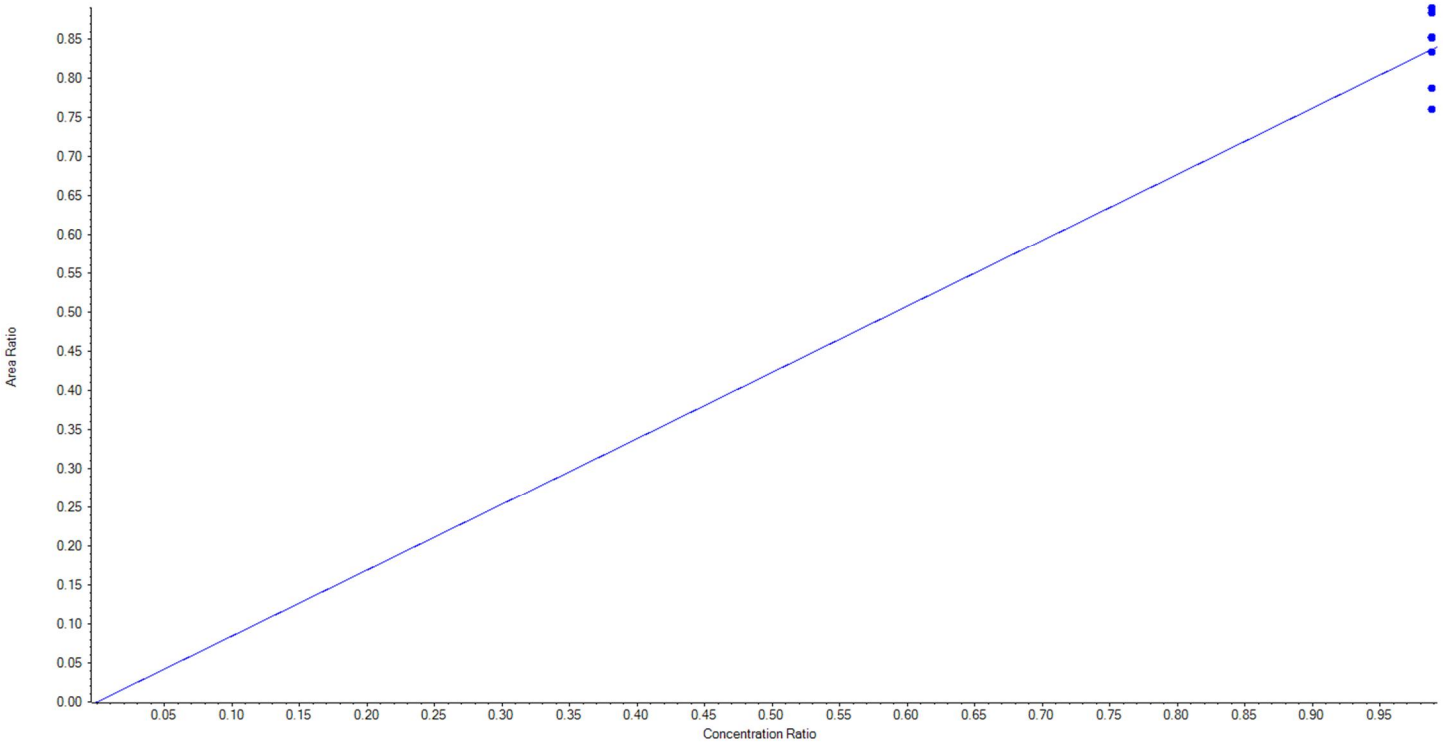
|---|---|---|---|
| **Analyte Name** | 13C3-PFHxS | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 402.0 / 99.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.84673 x (std. dev. = 0.04834) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 236.50 | 249.628750 | 105.6 |
| 3 | KB74 | L2 | True | 236.50 | 235.493353 | 99.6 |
| 4 | KB75 | L3 | True | 236.50 | 240.480662 | 101.7 |
| 5 | KB76 | L4 | True | 236.50 | 251.534731 | 106.4 |
| 6 | KB77 | L5 | True | 236.50 | 215.039496 | 90.9 |
| 7 | KB78 | L6 | True | 236.50 | 240.907424 | 101.9 |
| 8 | KB79 | L7 | True | 236.50 | 222.415584 | 94.0 |



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Calibration Summary Report

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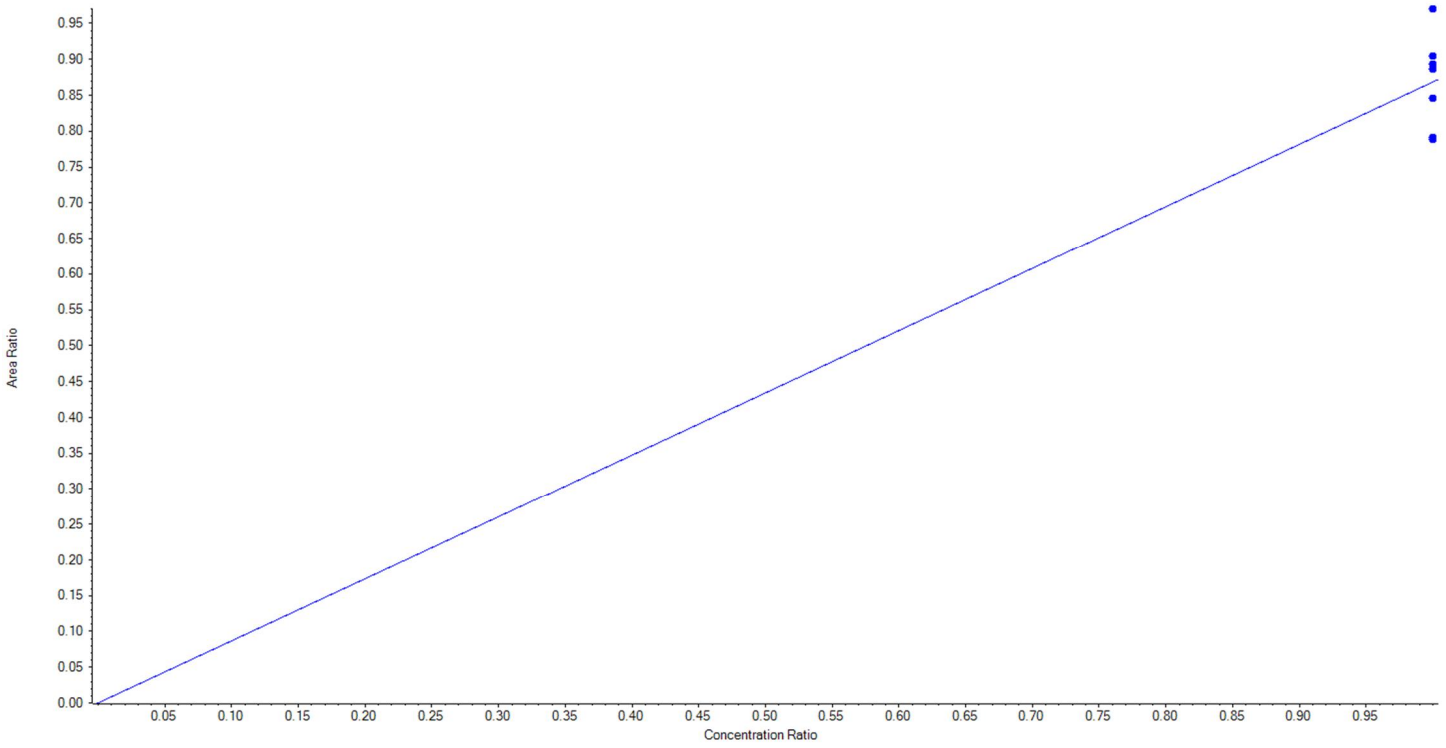
Printed: 22/10/2018 12:05:33 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | 13C8-PFOS | **Data File** | 18-0568B.wiff |
| **MRM Transition** | 507.0 / 99.0 | **Result Table** | 18-0580_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/5/2018 10:28:31 AM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.86844 x (std. dev. = 0.06514) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 239.25 | 217.092004 | 90.7 |
| 3 | KB74 | L2 | True | 239.25 | 244.053641 | 102.0 |
| 4 | KB75 | L3 | True | 239.25 | 267.292979 | 111.7 |
| 5 | KB76 | L4 | True | 239.25 | 249.059783 | 104.1 |
| 6 | KB77 | L5 | True | 239.25 | 232.851709 | 97.3 |
| 7 | KB78 | L6 | True | 239.25 | 246.260211 | 102.9 |
| 8 | KB79 | L7 | True | 239.25 | 218.139674 | 91.2 |



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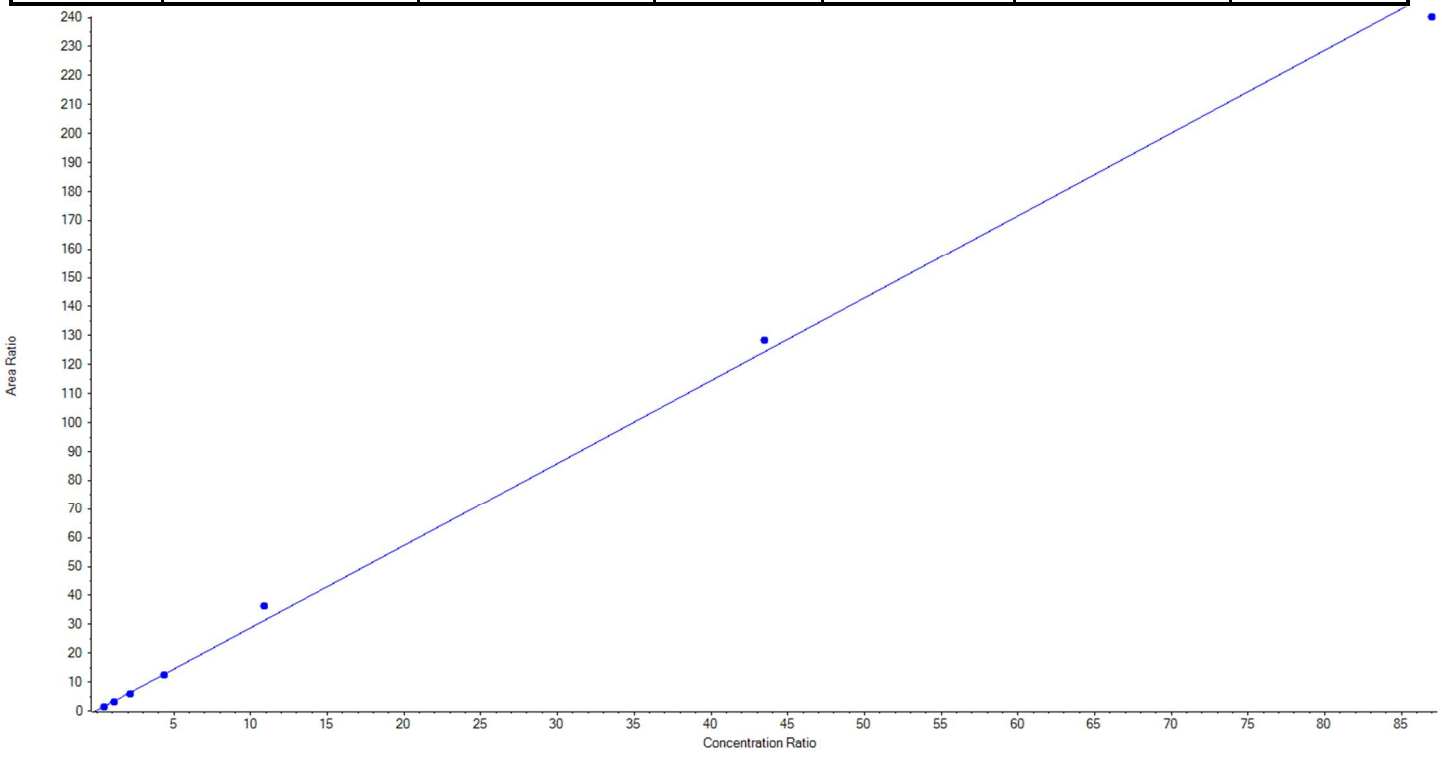
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFBS_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 298.9 / 80.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C3-PFBS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 2.85612 x + 0.20125 (r = 0.99829) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 99.953426 | 99.0 |
| 3 | KB74 | L2 | True | 252.50 | 235.867817 | 93.4 |
| 4 | KB75 | L3 | True | 505.00 | 467.701721 | 92.6 |
| 5 | KB76 | L4 | True | 1010.00 | 993.462503 | 98.4 |
| 6 | KB77 | L5 | True | 2525.00 | 2947.537177 | 116.7 |
| 7 | KB78 | L6 | True | 10100.00 | 10433.295836 | 103.3 |
| 8 | KB79 | L7 | True | 20200.00 | 19515.681521 | 96.6 |



BATTELLE

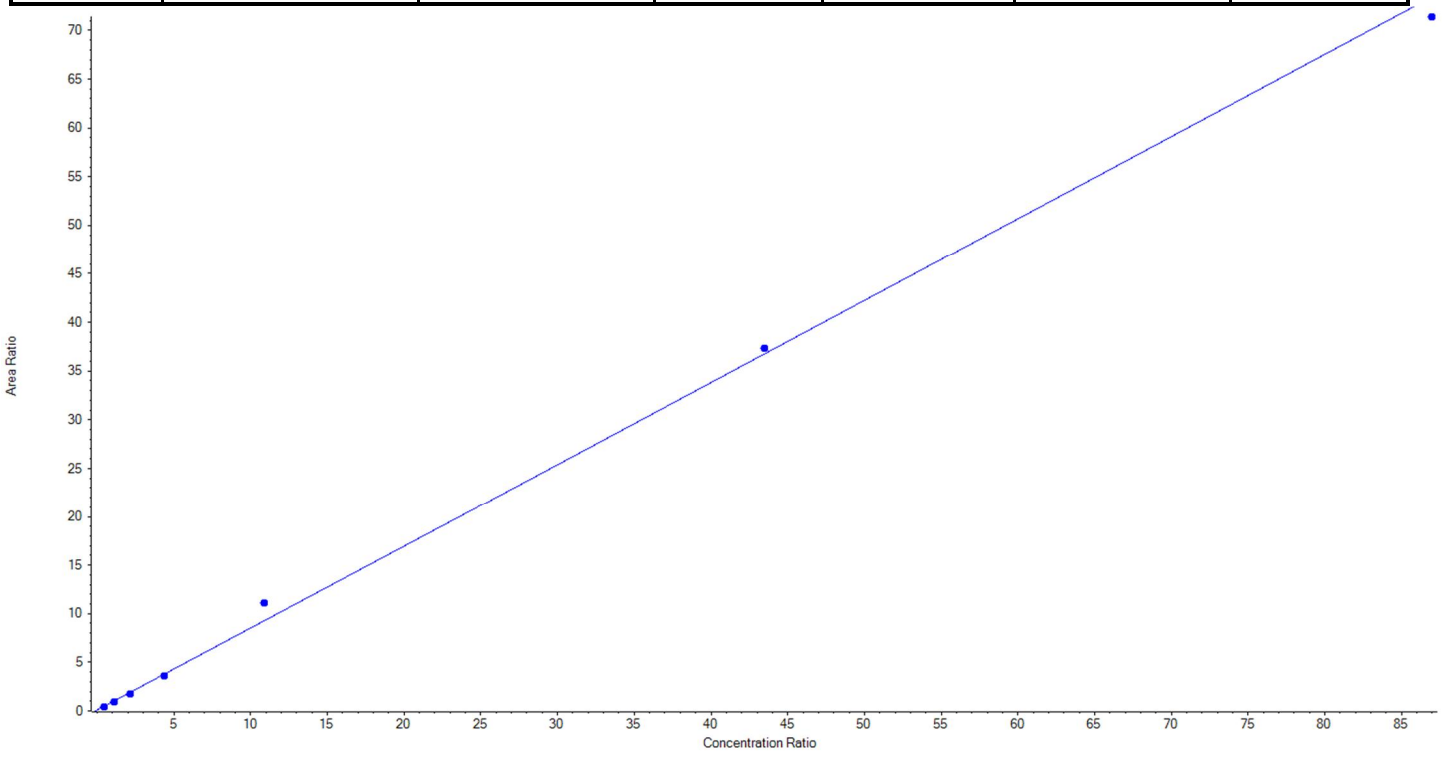
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFBS_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 298.9 / 99.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C3-PFBS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.84300 x + 0.09895 (r = 0.99812) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 99.537833 | 98.6 |
| 3 | KB74 | L2 | True | 252.50 | 237.336670 | 94.0 |
| 4 | KB75 | L3 | True | 505.00 | 467.679320 | 92.6 |
| 5 | KB76 | L4 | True | 1010.00 | 974.004845 | 96.4 |
| 6 | KB77 | L5 | True | 2525.00 | 3021.038298 | 119.7 |
| 7 | KB78 | L6 | True | 10100.00 | 10256.020604 | 101.5 |
| 8 | KB79 | L7 | True | 20200.00 | 19637.882430 | 97.2 |



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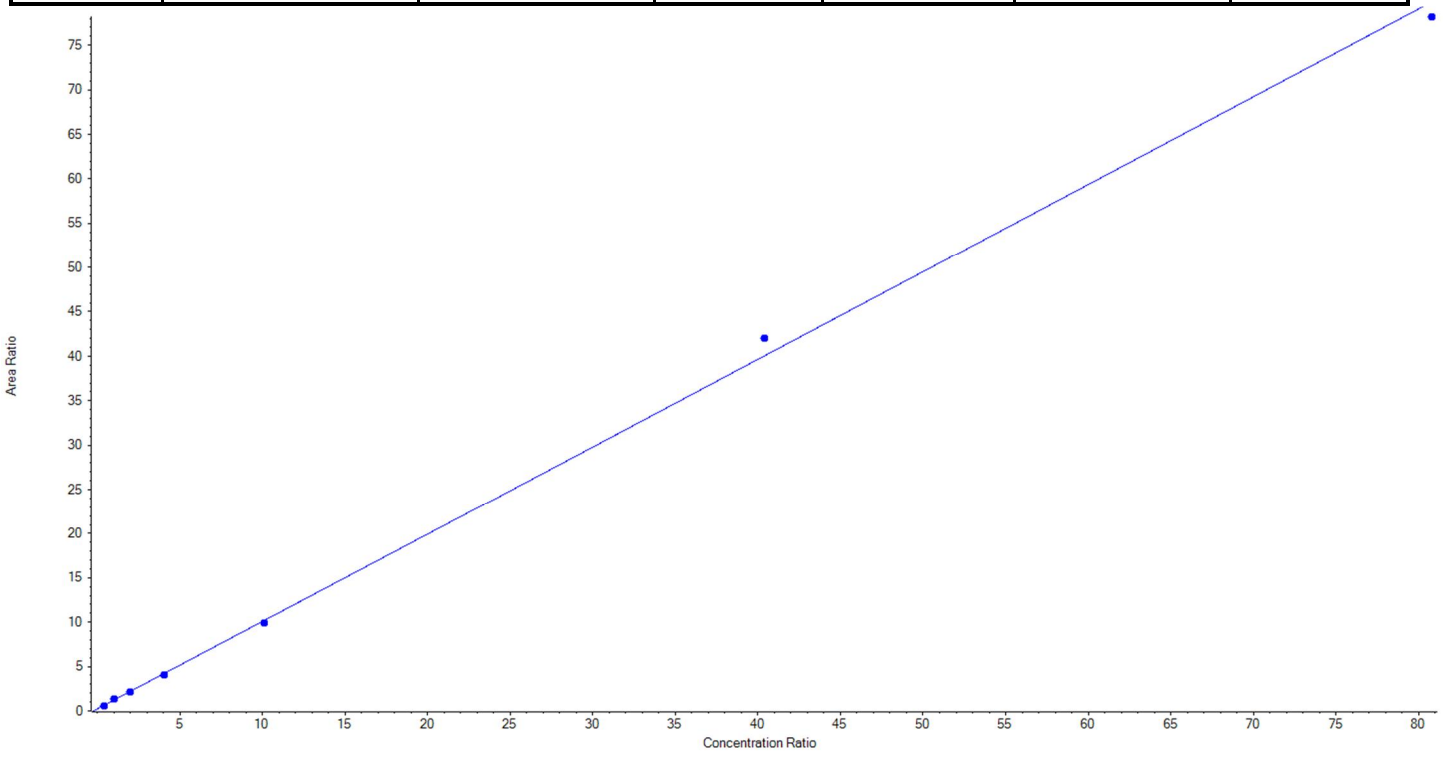
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFHxA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 313.0 / 269.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C5-PFHxA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.98554 x + 0.22259 (r = 0.99933) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 92.447260 | 91.5 |
| 3 | KB74 | L2 | True | 252.50 | 287.493278 | 113.9 |
| 4 | KB75 | L3 | True | 505.00 | 488.979798 | 96.8 |
| 5 | KB76 | L4 | True | 1010.00 | 983.021914 | 97.3 |
| 6 | KB77 | L5 | True | 2525.00 | 2463.536173 | 97.6 |
| 7 | KB78 | L6 | True | 10100.00 | 10605.144570 | 105.0 |
| 8 | KB79 | L7 | True | 20200.00 | 19772.877006 | 97.9 |



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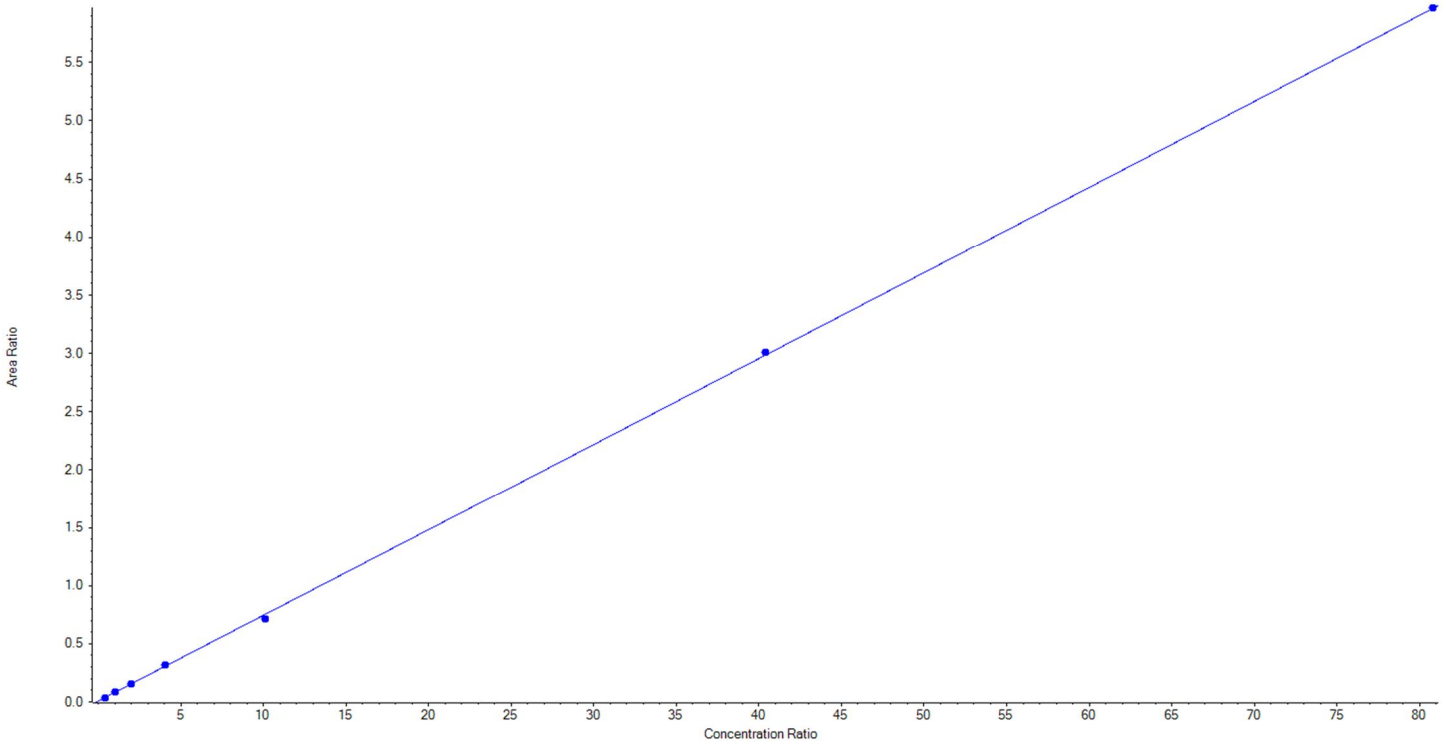
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFHxA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 313.0 / 119.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C5-PFHxA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.07369 x + 0.00793 (r = 0.99983) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 99.213282 | 98.2 |
| 3 | KB74 | L2 | True | 252.50 | 256.972963 | 101.8 |
| 4 | KB75 | L3 | True | 505.00 | 506.830897 | 100.4 |
| 5 | KB76 | L4 | True | 1010.00 | 1054.871534 | 104.4 |
| 6 | KB77 | L5 | True | 2525.00 | 2382.338955 | 94.4 |
| 7 | KB78 | L6 | True | 10100.00 | 10176.855980 | 100.8 |
| 8 | KB79 | L7 | True | 20200.00 | 20216.416389 | 100.1 |



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Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

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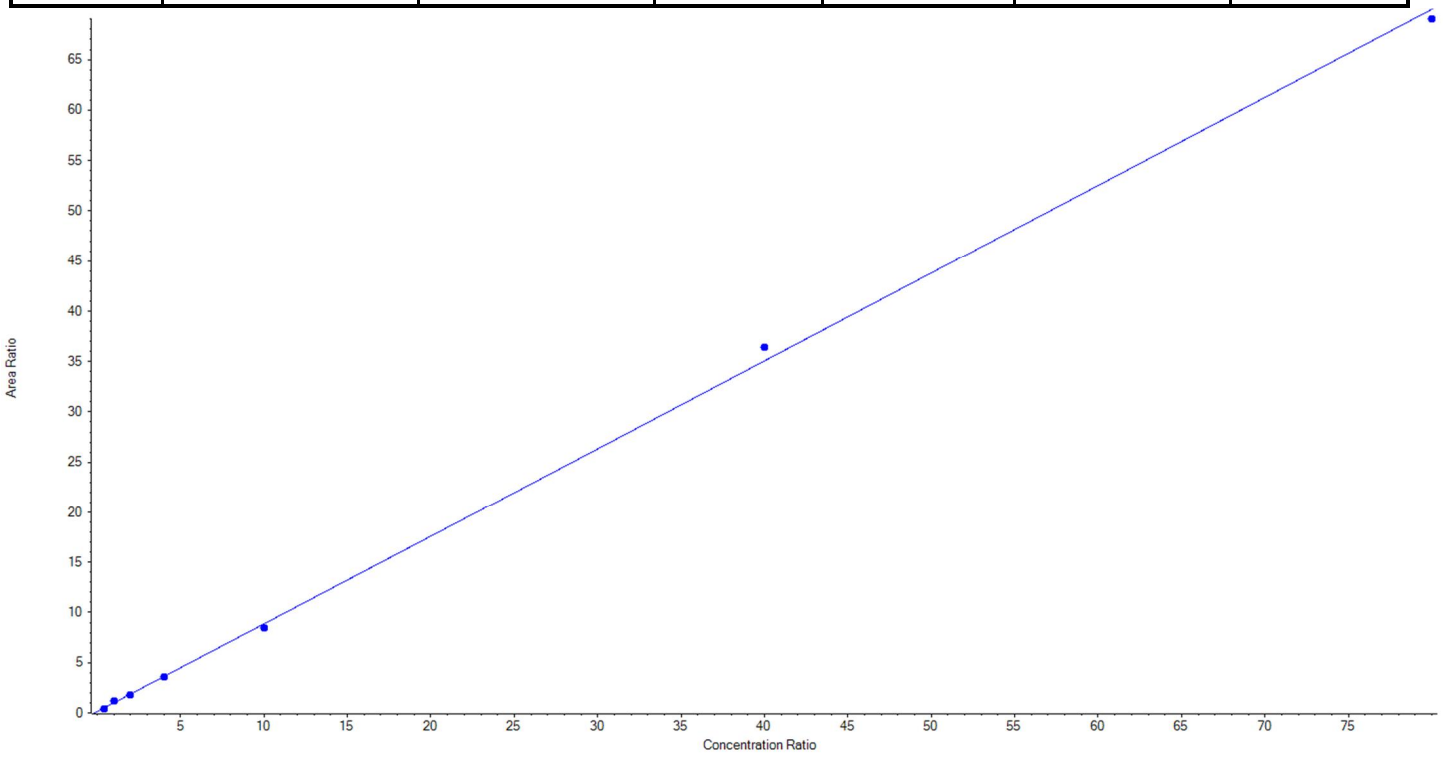
|---|---|---|---|
| **Analyte Name** | PFHpA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 363.0 / 319.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C4-PFHpA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.87325 x + 0.13017 (r = 0.99942) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 89.873661 | 89.9 |
| 3 | KB74 | L2 | True | 250.00 | 297.117006 | 118.9 |
| 4 | KB75 | L3 | True | 500.00 | 476.968535 | 95.4 |
| 5 | KB76 | L4 | True | 1000.00 | 980.539024 | 98.1 |
| 6 | KB77 | L5 | True | 2500.00 | 2380.403957 | 95.2 |
| 7 | KB78 | L6 | True | 10000.00 | 10398.055976 | 104.0 |
| 8 | KB79 | L7 | True | 20000.00 | 19727.041841 | 98.6 |



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Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

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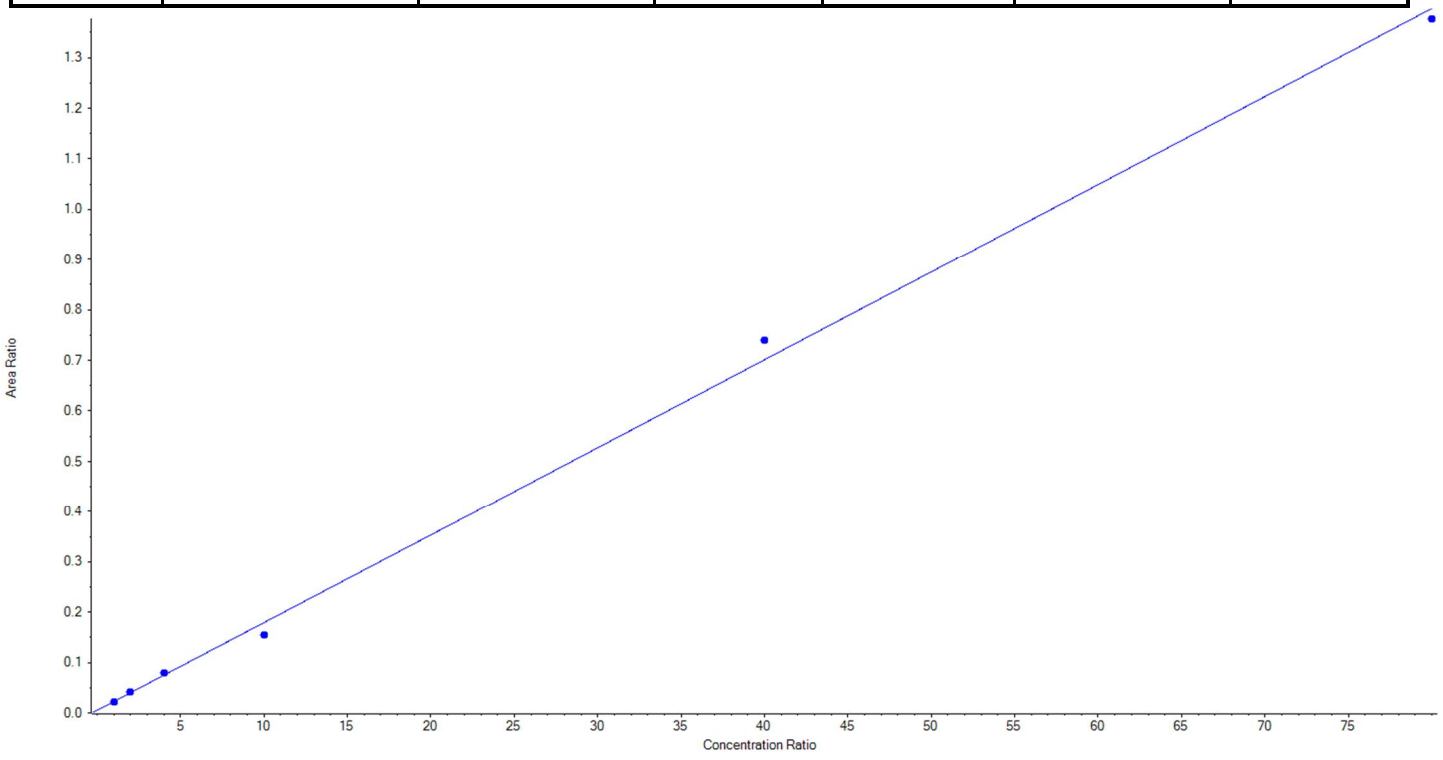
|---|---|---|---|
| **Analyte Name** | PFHpA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 363.0 / 169.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C4-PFHpA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.01740 x + 0.00524 (r = 0.99849) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | False | 100.00 | N/A | N/A |
| 3 | KB74 | L2 | True | 250.00 | 239.925260 | 96.0 |
| 4 | KB75 | L3 | True | 500.00 | 532.066103 | 106.4 |
| 5 | KB76 | L4 | True | 1000.00 | 1074.132757 | 107.4 |
| 6 | KB77 | L5 | True | 2500.00 | 2156.057878 | 86.2 |
| 7 | KB78 | L6 | True | 10000.00 | 10544.398899 | 105.4 |
| 8 | KB79 | L7 | True | 20000.00 | 19703.419103 | 98.5 |



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Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

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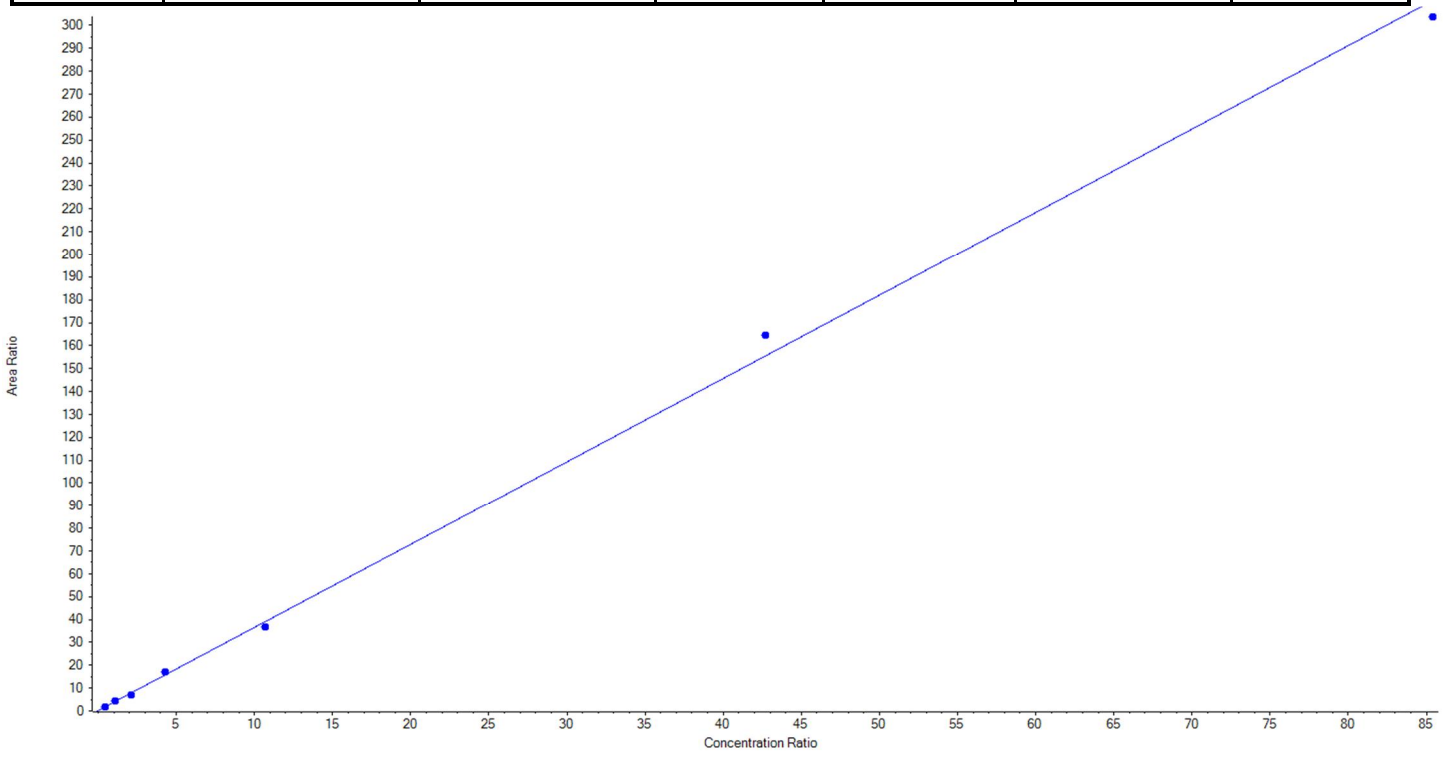
|---|---|---|---|
| **Analyte Name** | PFHxS_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 399.0 / 80.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C3-PFHxS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 3.63703 x + 0.18629 (r = 0.99899) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 100.517086 | 99.5 |
| 3 | KB74 | L2 | True | 252.50 | 266.028024 | 105.4 |
| 4 | KB75 | L3 | True | 505.00 | 454.394152 | 90.0 |
| 5 | KB76 | L4 | True | 1010.00 | 1088.436384 | 107.8 |
| 6 | KB77 | L5 | True | 2525.00 | 2372.812761 | 94.0 |
| 7 | KB78 | L6 | True | 10100.00 | 10676.033528 | 105.7 |
| 8 | KB79 | L7 | True | 20200.00 | 19735.278066 | 97.7 |



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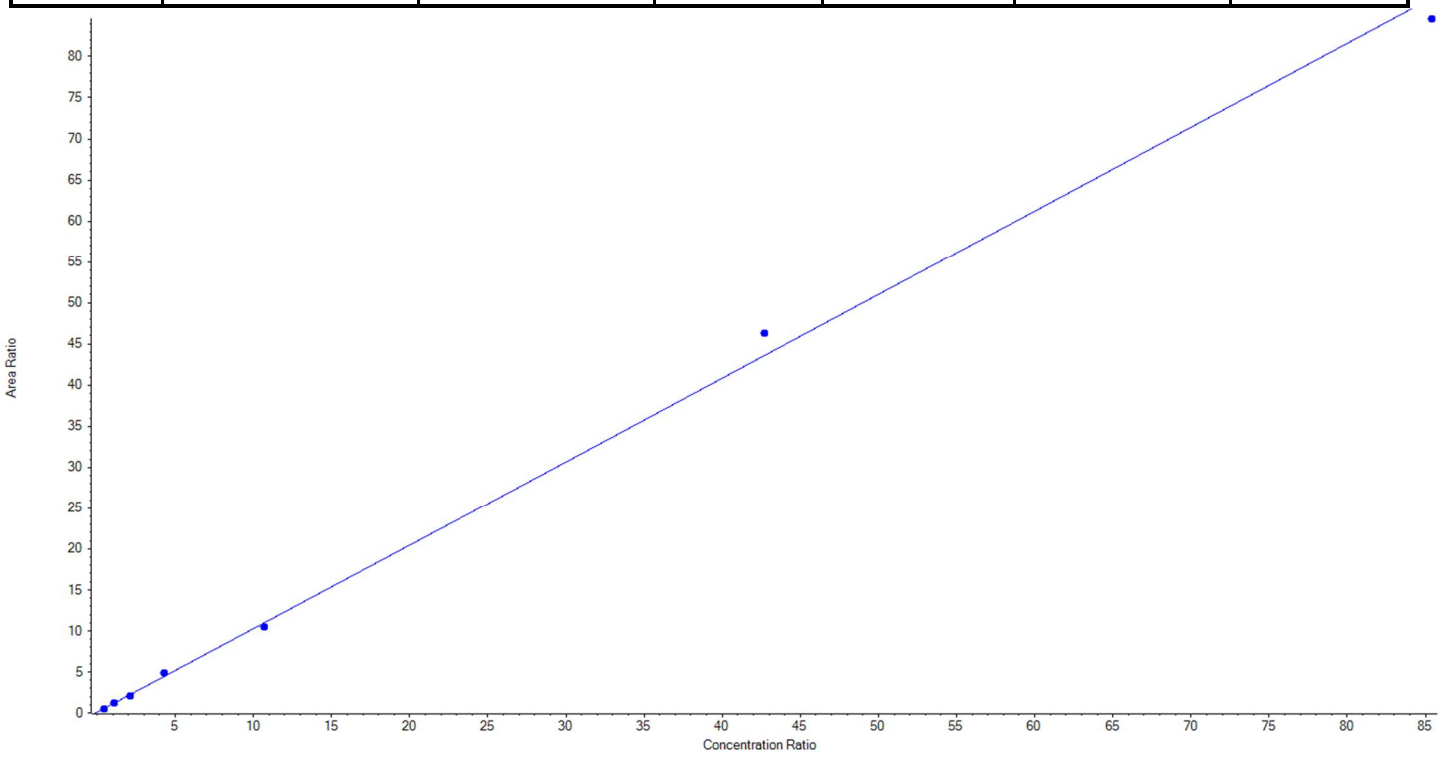
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFHxS_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 399.0 / 99.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C3-PFHxS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.01889 x + 0.08300 (r = 0.99880) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 101.00 | 95.954083 | 95.0 |
| 3 | KB74 | L2 | True | 252.50 | 267.441050 | 105.9 |
| 4 | KB75 | L3 | True | 505.00 | 453.657269 | 89.8 |
| 5 | KB76 | L4 | True | 1010.00 | 1109.381232 | 109.8 |
| 6 | KB77 | L5 | True | 2525.00 | 2425.801995 | 96.1 |
| 7 | KB78 | L6 | True | 10100.00 | 10732.303596 | 106.3 |
| 8 | KB79 | L7 | True | 20200.00 | 19608.960774 | 97.1 |



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Calibration Summary Report

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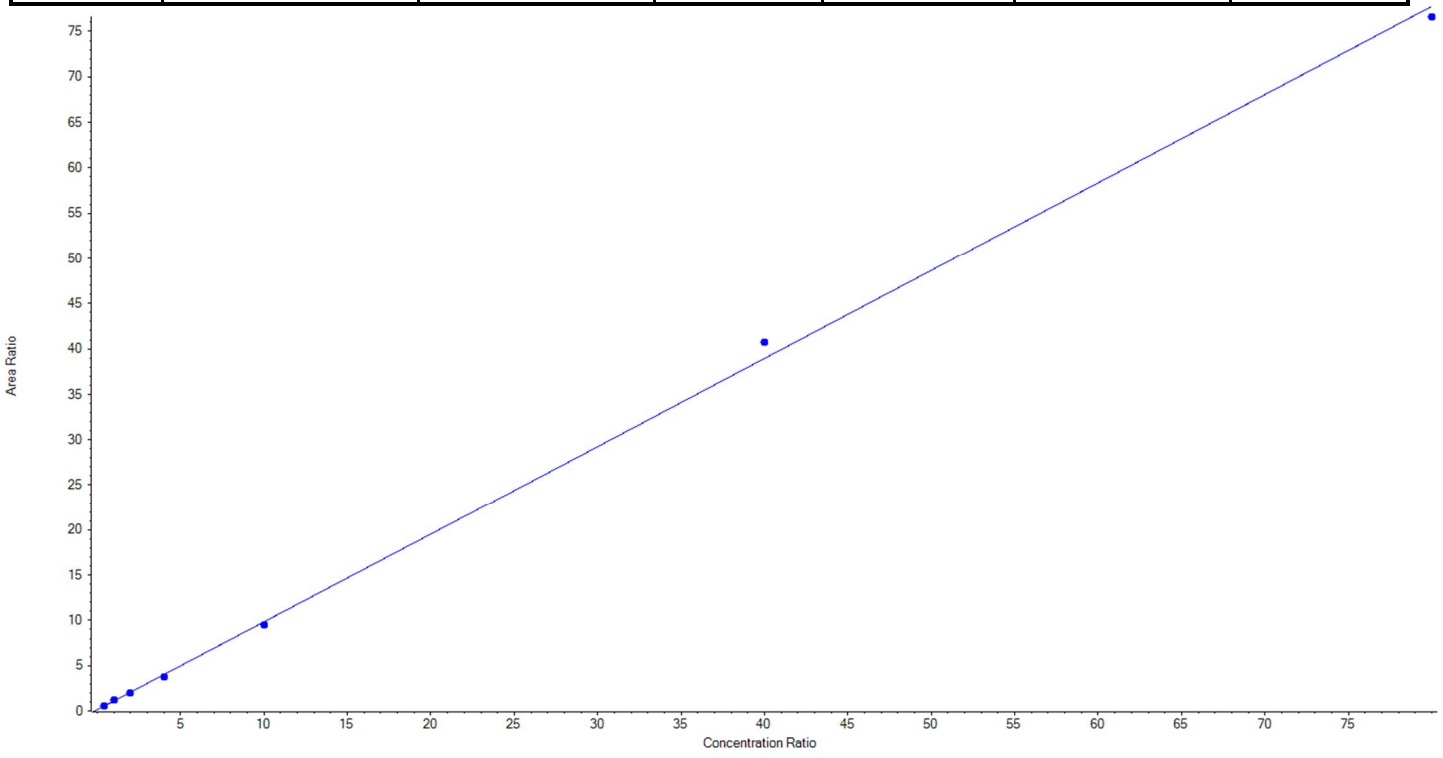
| | | | |
|---|---|---|---|
| **Analyte Name** | PFOA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 413.0 / 369.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C8-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.97044 x + 0.12959 (r = 0.99946) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 101.180654 | 101.2 |
| 3 | KB74 | L2 | True | 250.00 | 271.138088 | 108.5 |
| 4 | KB75 | L3 | True | 500.00 | 487.237867 | 97.5 |
| 5 | KB76 | L4 | True | 1000.00 | 935.786687 | 93.6 |
| 6 | KB77 | L5 | True | 2500.00 | 2409.578897 | 96.4 |
| 7 | KB78 | L6 | True | 10000.00 | 10445.864678 | 104.5 |
| 8 | KB79 | L7 | True | 20000.00 | 19699.213129 | 98.5 |



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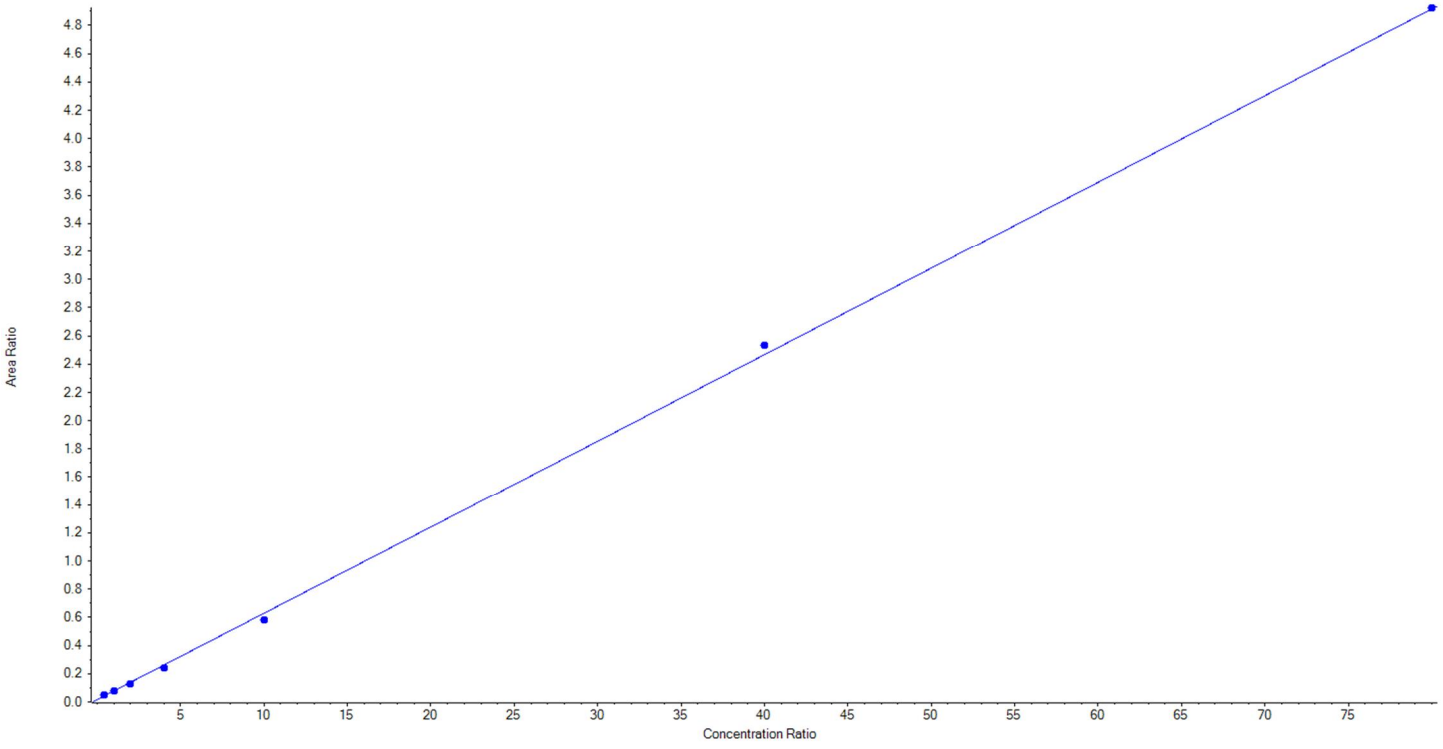
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFOA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 413.0 / 169.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C8-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.06125 x + 0.01676 (r = 0.99942) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 123.895310 | 123.9 |
| 3 | KB74 | L2 | True | 250.00 | 243.598034 | 97.4 |
| 4 | KB75 | L3 | True | 500.00 | 454.441982 | 90.9 |
| 5 | KB76 | L4 | True | 1000.00 | 926.390958 | 92.6 |
| 6 | KB77 | L5 | True | 2500.00 | 2309.165462 | 92.4 |
| 7 | KB78 | L6 | True | 10000.00 | 10261.764977 | 102.6 |
| 8 | KB79 | L7 | True | 20000.00 | 20030.743277 | 100.2 |



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Calibration Summary Report

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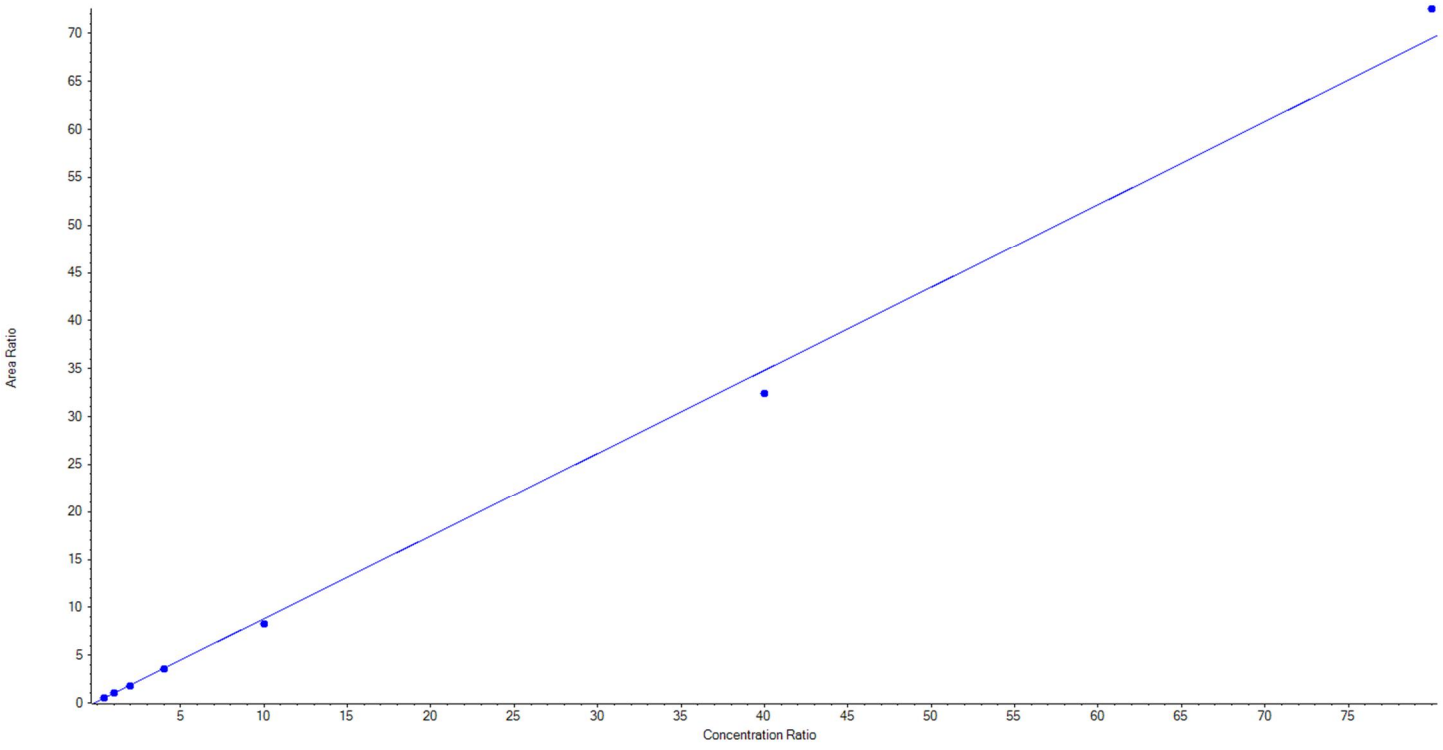
| | | | |
|---|---|---|---|
| **Analyte Name** | PFNA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 463.0 / 419.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C9-PFNA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.86669 x + 0.14610 (r = 0.99837) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 111.732664 | 111.7 |
| 3 | KB74 | L2 | True | 250.00 | 265.554817 | 106.2 |
| 4 | KB75 | L3 | True | 500.00 | 464.587264 | 92.9 |
| 5 | KB76 | L4 | True | 1000.00 | 981.108634 | 98.1 |
| 6 | KB77 | L5 | True | 2500.00 | 2339.025833 | 93.6 |
| 7 | KB78 | L6 | True | 10000.00 | 9303.221102 | 93.0 |
| 8 | KB79 | L7 | True | 20000.00 | 20884.769686 | 104.4 |



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Calibration Summary Report

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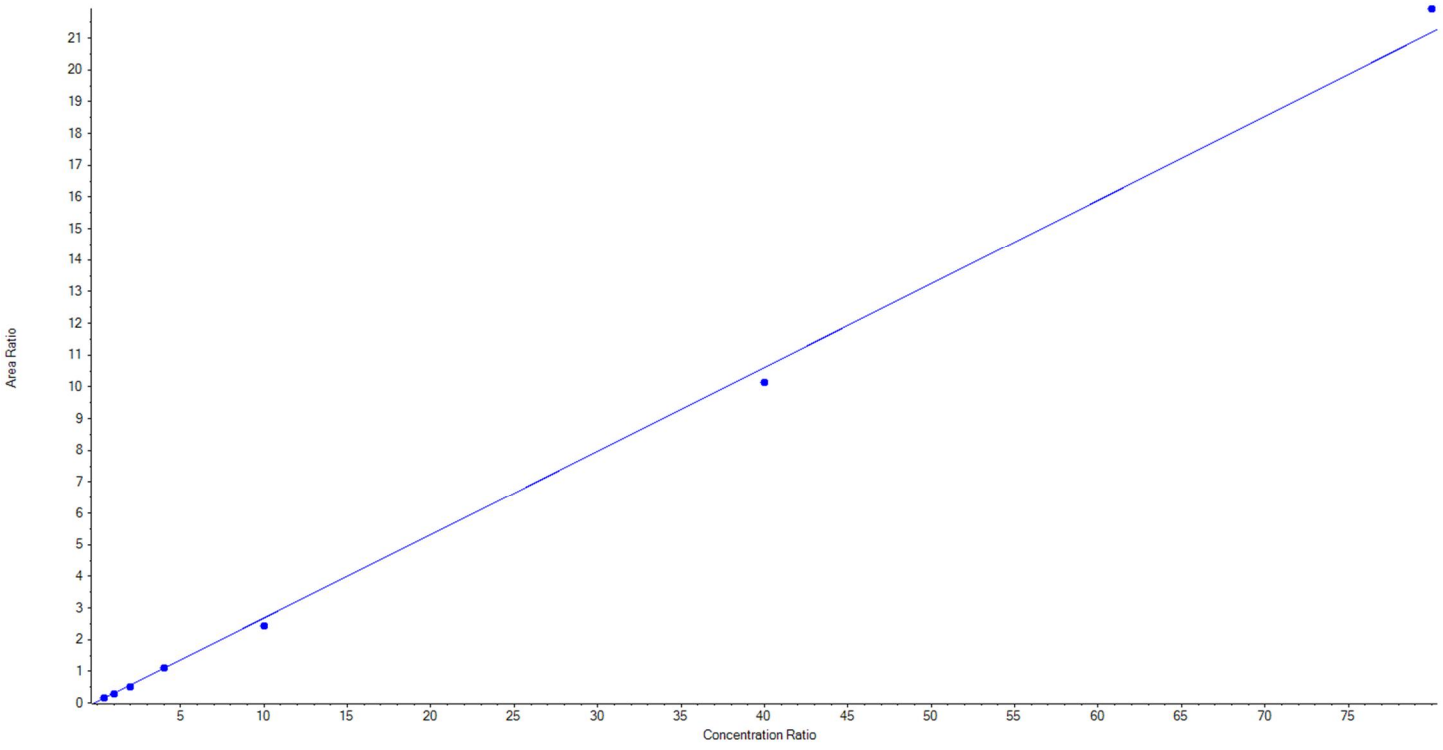
| | | | |
|---|---|---|---|
| **Analyte Name** | PFNA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 463.0 / 219.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C9-PFNA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.26428 x + 0.03914 (r = 0.99877) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 124.667356 | 124.7 |
| 3 | KB74 | L2 | True | 250.00 | 238.006617 | 95.2 |
| 4 | KB75 | L3 | True | 500.00 | 445.274904 | 89.1 |
| 5 | KB76 | L4 | True | 1000.00 | 1012.445509 | 101.2 |
| 6 | KB77 | L5 | True | 2500.00 | 2267.641827 | 90.7 |
| 7 | KB78 | L6 | True | 10000.00 | 9562.994751 | 95.6 |
| 8 | KB79 | L7 | True | 20000.00 | 20698.969036 | 103.5 |



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Calibration Summary Report



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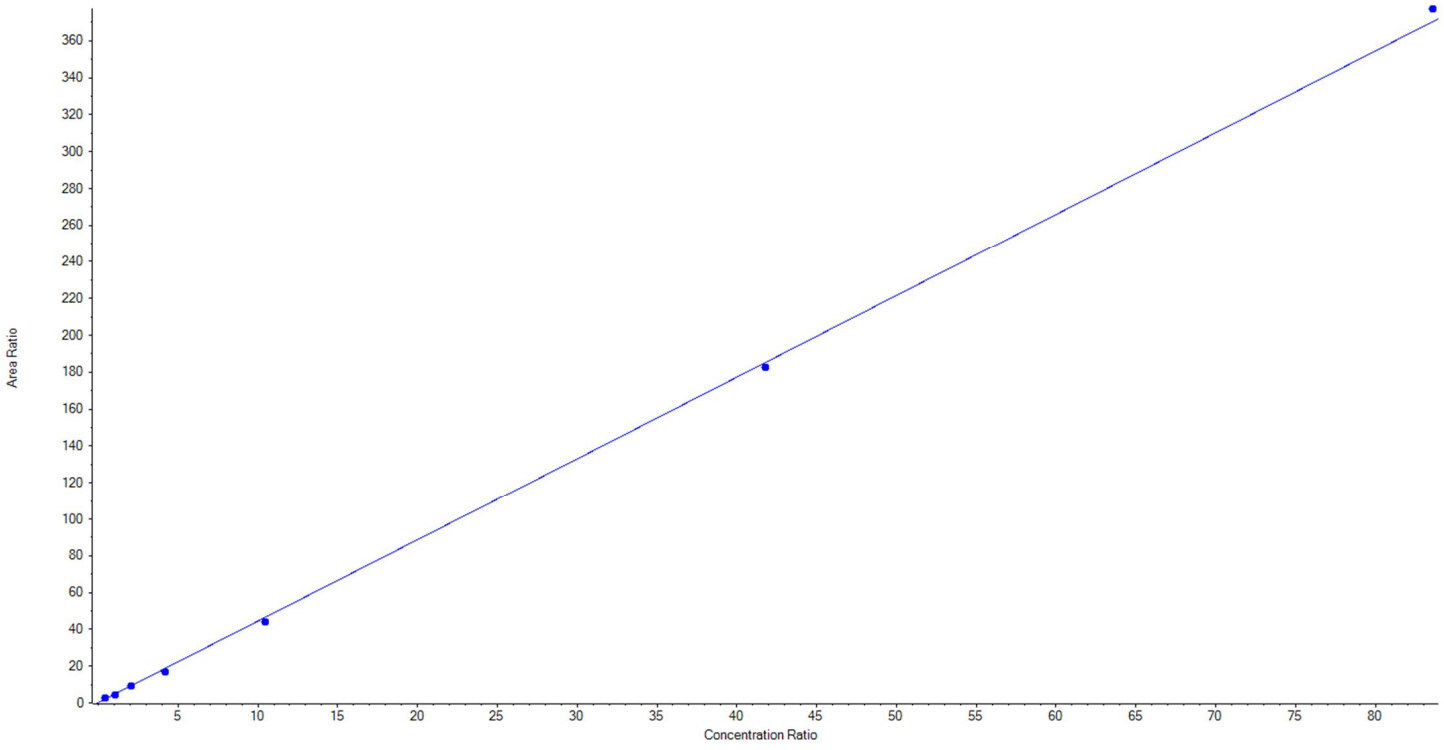
|---|---|---|---|
| **Analyte Name** | PFOS_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 499.0 / 80.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C8-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 4.42892 x + 0.18428 (r = 0.99950) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 123.573097 | 123.6 |
| 3 | KB74 | L2 | True | 250.00 | 231.385263 | 92.6 |
| 4 | KB75 | L3 | True | 500.00 | 490.927213 | 98.2 |
| 5 | KB76 | L4 | True | 1000.00 | 904.657366 | 90.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2369.050851 | 94.8 |
| 7 | KB78 | L6 | True | 10000.00 | 9861.510766 | 98.6 |
| 8 | KB79 | L7 | True | 20000.00 | 20368.895445 | 101.8 |



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Calibration Summary Report

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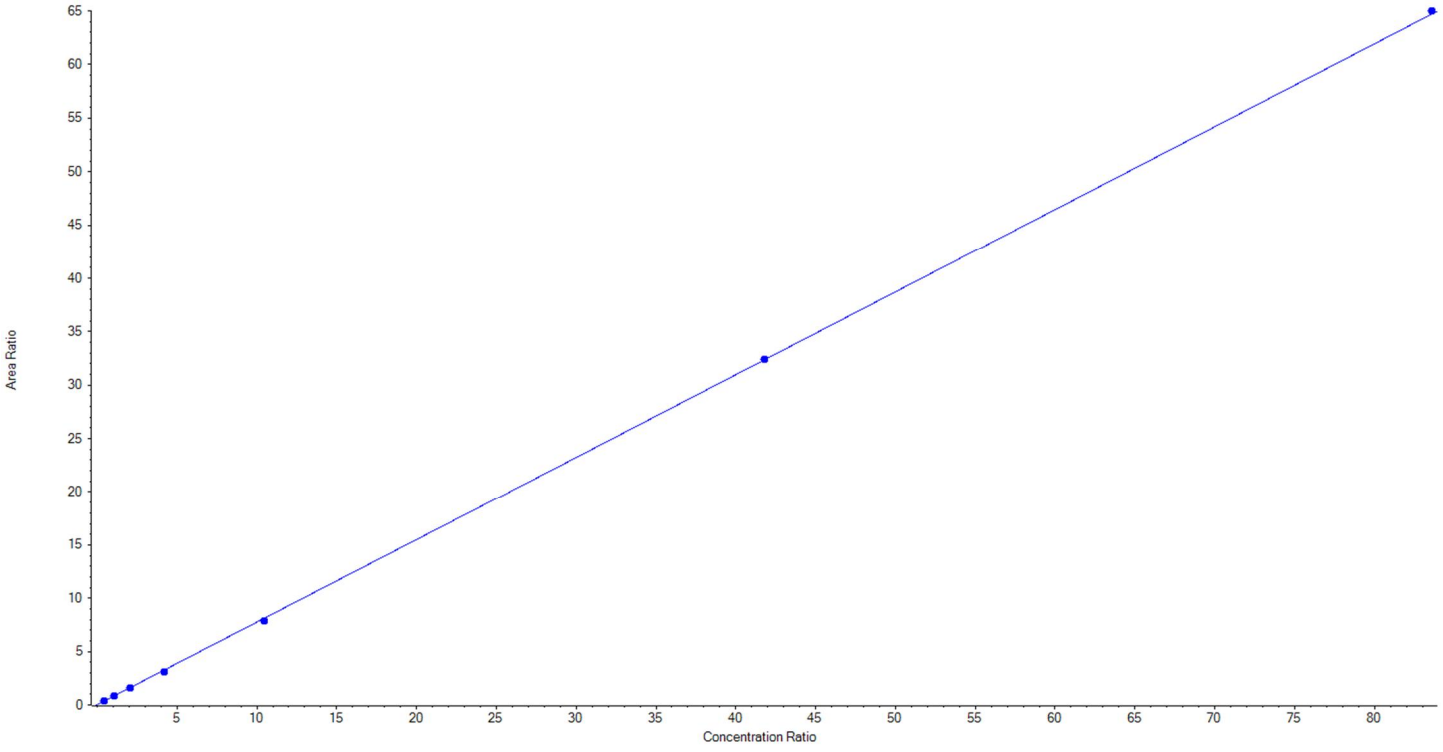
| | | | |
|---|---|---|---|
| **Analyte Name** | PFOS_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 499.0 / 99.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C8-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.77399 x + 0.01851 (r = 0.99990) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 106.379713 | 106.4 |
| 3 | KB74 | L2 | True | 250.00 | 253.914073 | 101.6 |
| 4 | KB75 | L3 | True | 500.00 | 499.305152 | 99.9 |
| 5 | KB76 | L4 | True | 1000.00 | 940.173706 | 94.0 |
| 6 | KB77 | L5 | True | 2500.00 | 2437.291957 | 97.5 |
| 7 | KB78 | L6 | True | 10000.00 | 10023.980246 | 100.2 |
| 8 | KB79 | L7 | True | 20000.00 | 20088.955153 | 100.4 |



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Calibration Summary Report

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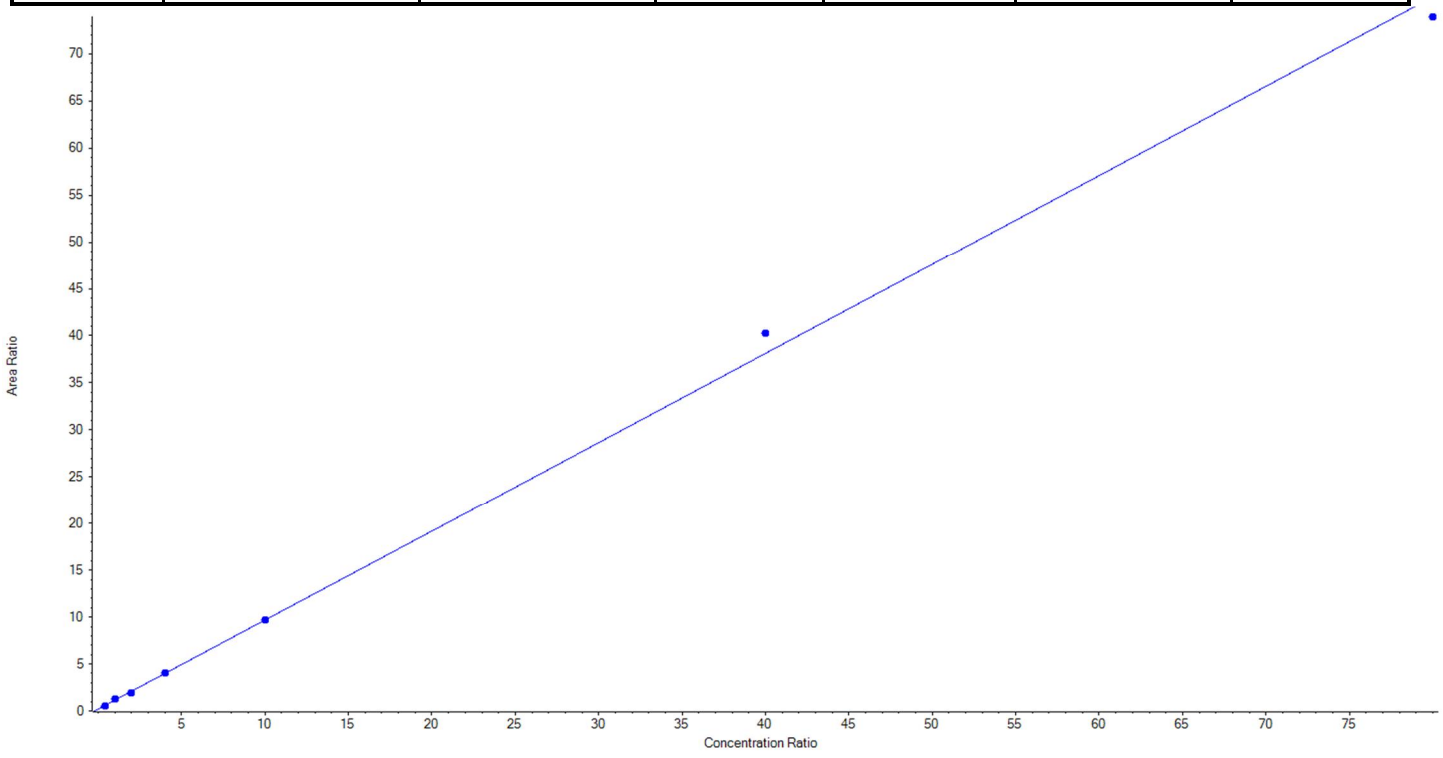
| | | | |
|---|---|---|---|
| **Analyte Name** | PFDA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 513.0 / 469.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C6-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.94798 x + 0.20381 (r = 0.99909) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 91.723499 | 91.7 |
| 3 | KB74 | L2 | True | 250.00 | 283.577861 | 113.4 |
| 4 | KB75 | L3 | True | 500.00 | 458.611120 | 91.7 |
| 5 | KB76 | L4 | True | 1000.00 | 1003.320169 | 100.3 |
| 6 | KB77 | L5 | True | 2500.00 | 2495.696626 | 99.8 |
| 7 | KB78 | L6 | True | 10000.00 | 10575.579483 | 105.8 |
| 8 | KB79 | L7 | True | 20000.00 | 19441.491242 | 97.2 |



BATTELLE

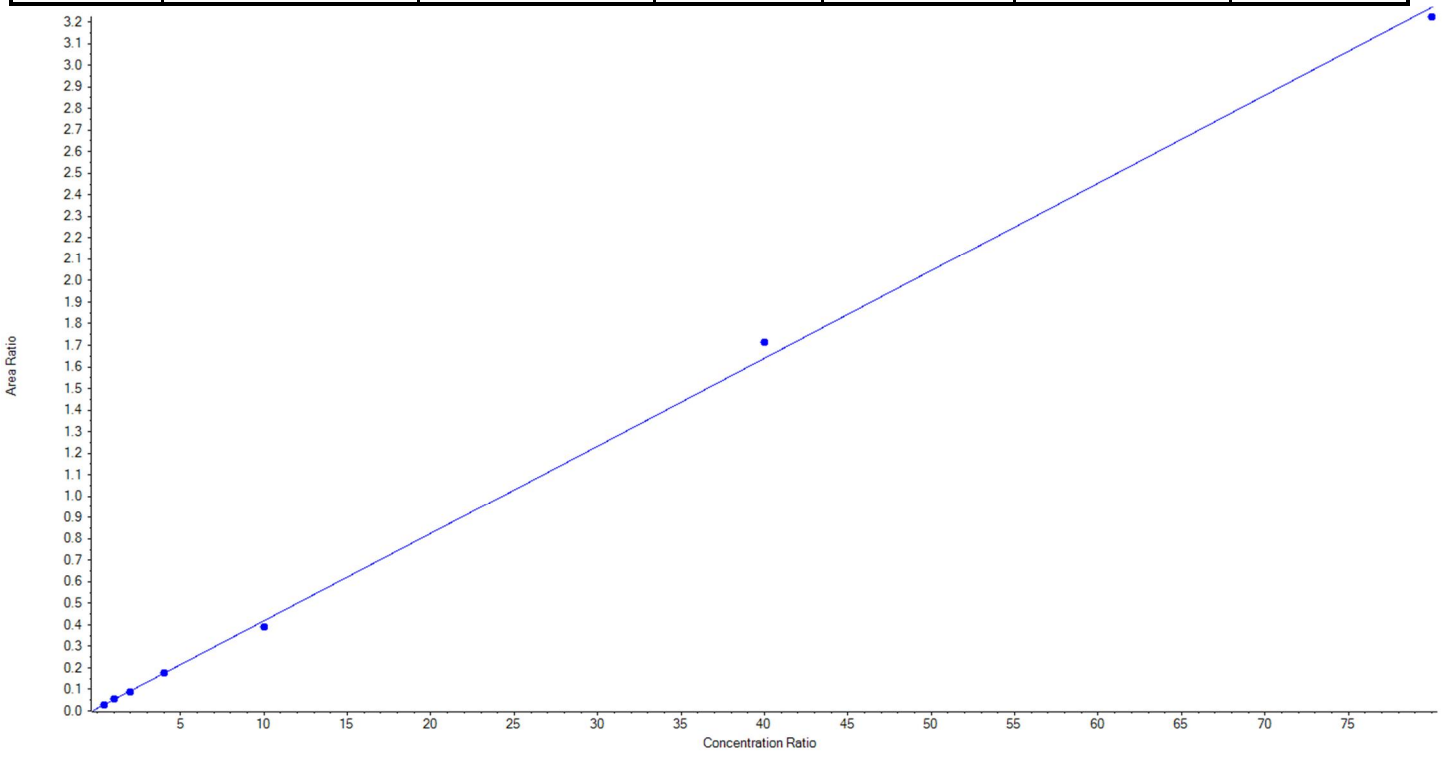
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFDA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 513.0 / 219.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C6-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.04070 x + 0.01166 (r = 0.99932) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 99.266945 | 99.3 |
| 3 | KB74 | L2 | True | 250.00 | 274.959074 | 110.0 |
| 4 | KB75 | L3 | True | 500.00 | 475.811514 | 95.2 |
| 5 | KB76 | L4 | True | 1000.00 | 998.656796 | 99.9 |
| 6 | KB77 | L5 | True | 2500.00 | 2311.427685 | 92.5 |
| 7 | KB78 | L6 | True | 10000.00 | 10462.989195 | 104.6 |
| 8 | KB79 | L7 | True | 20000.00 | 19726.888792 | 98.6 |



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Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

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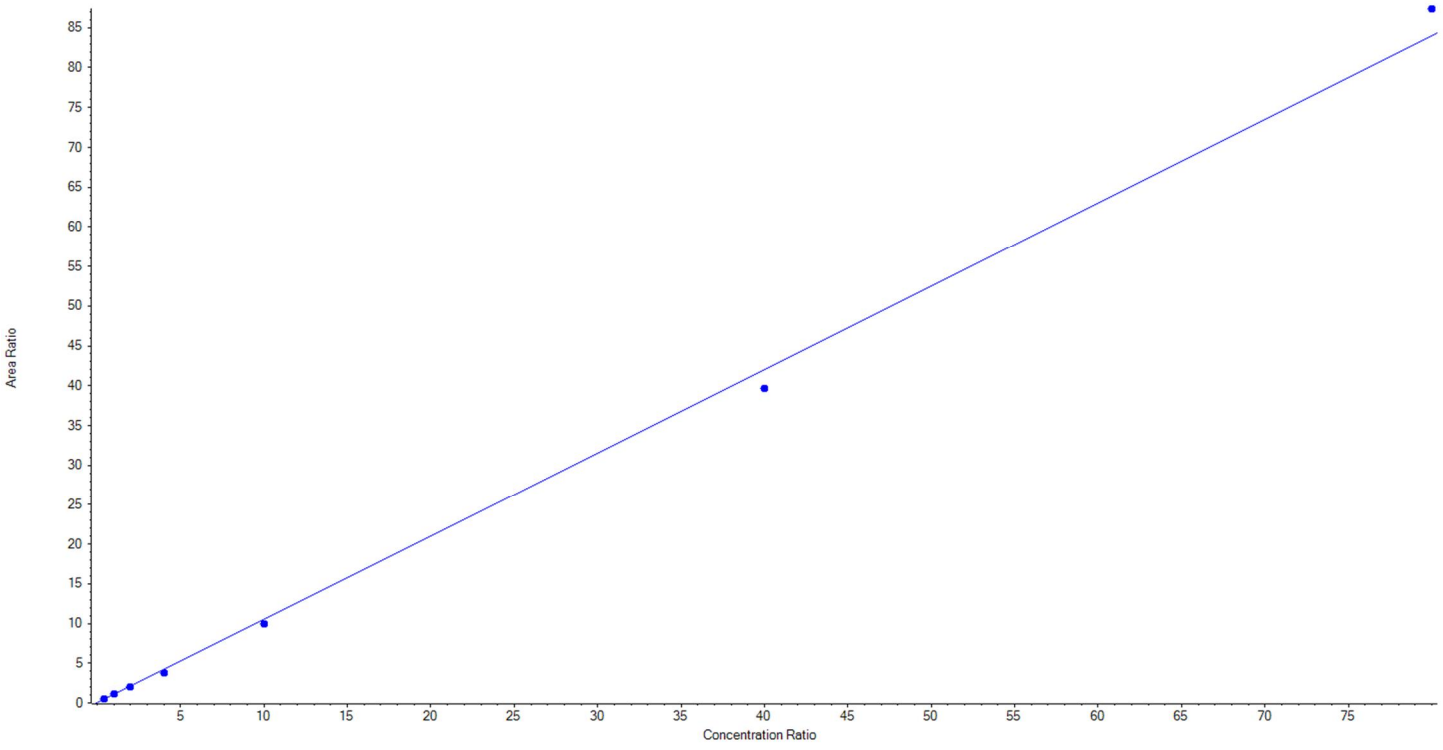
|---|---|---|---|
| **Analyte Name** | PFUnA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 563.0 / 519.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C7-PFUnA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.04950 x + 0.02785 (r = 0.99864) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 116.714826 | 116.7 |
| 3 | KB74 | L2 | True | 250.00 | 257.976381 | 103.2 |
| 4 | KB75 | L3 | True | 500.00 | 486.390999 | 97.3 |
| 5 | KB76 | L4 | True | 1000.00 | 903.715490 | 90.4 |
| 6 | KB77 | L5 | True | 2500.00 | 2353.654032 | 94.2 |
| 7 | KB78 | L6 | True | 10000.00 | 9428.194009 | 94.3 |
| 8 | KB79 | L7 | True | 20000.00 | 20803.354263 | 104.0 |



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Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

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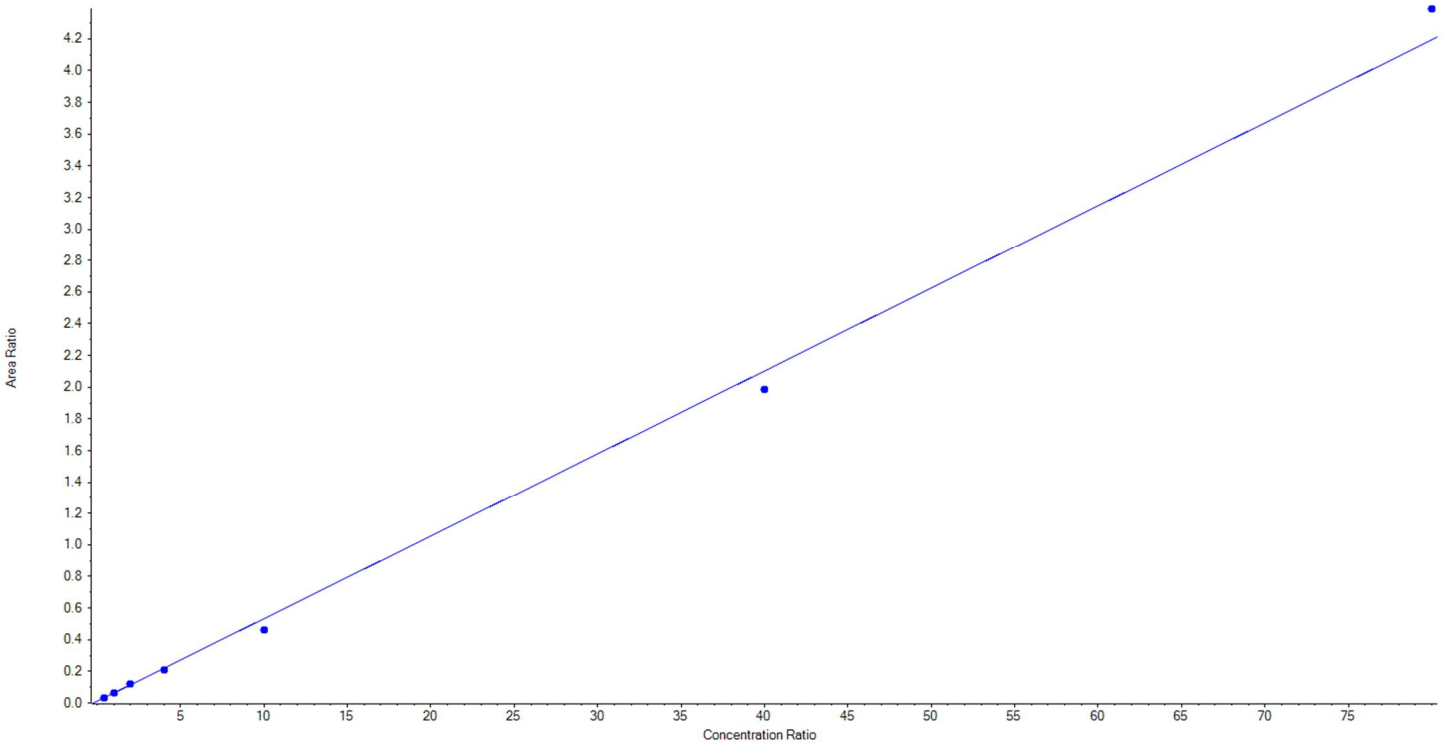
|---|---|---|---|
| **Analyte Name** | PFUnA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 563.0 / 269.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C7-PFUnA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.05229 x + 0.01034 (r = 0.99795) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 112.803868 | 112.8 |
| 3 | KB74 | L2 | True | 250.00 | 261.313717 | 104.5 |
| 4 | KB75 | L3 | True | 500.00 | 510.984846 | 102.2 |
| 5 | KB76 | L4 | True | 1000.00 | 956.967861 | 95.7 |
| 6 | KB77 | L5 | True | 2500.00 | 2144.779953 | 85.8 |
| 7 | KB78 | L6 | True | 10000.00 | 9433.988662 | 94.3 |
| 8 | KB79 | L7 | True | 20000.00 | 20929.161092 | 104.7 |



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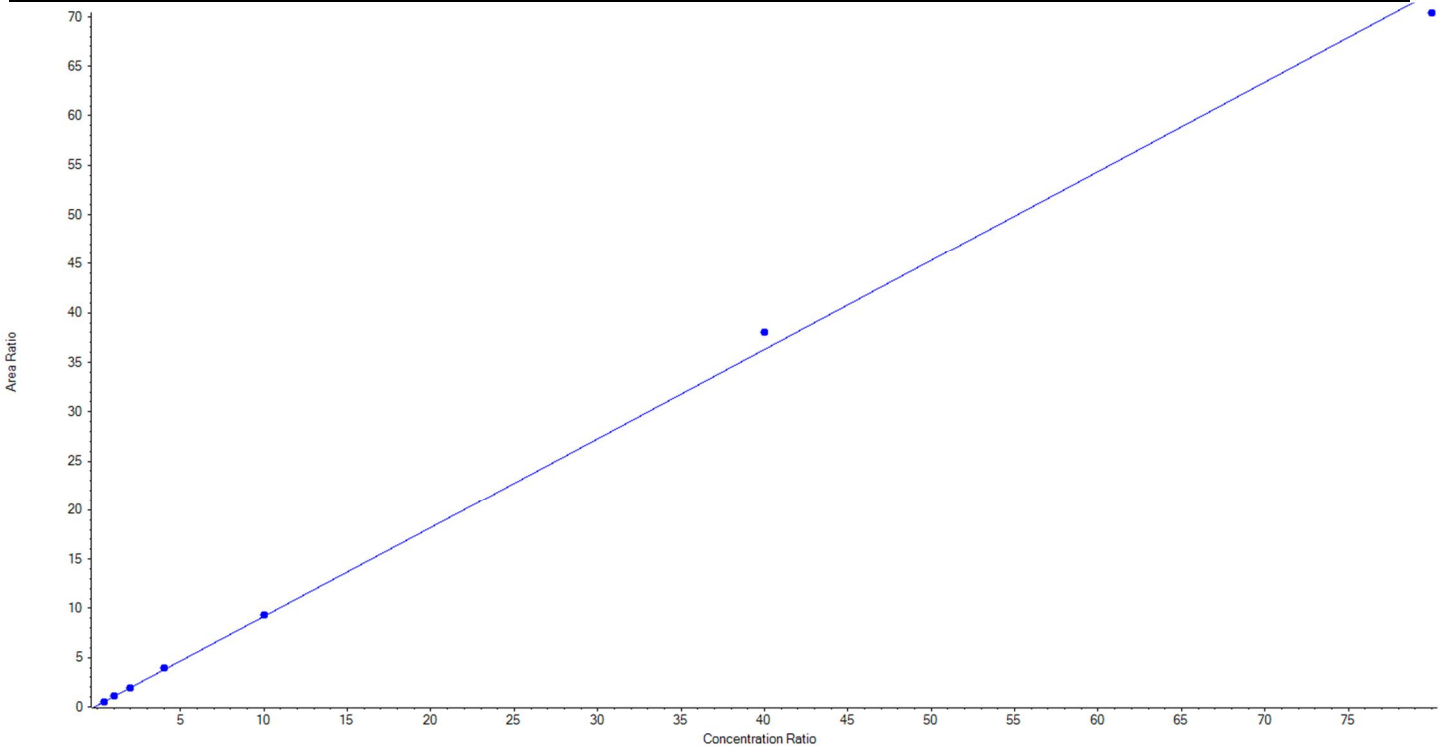
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFDoA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 613.0 / 569.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C2-PFDoA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.90363 x + 0.14776 (r = 0.99929) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 87.034754 | 87.0 |
| 3 | KB74 | L2 | True | 250.00 | 263.602074 | 105.4 |
| 4 | KB75 | L3 | True | 500.00 | 494.809950 | 99.0 |
| 5 | KB76 | L4 | True | 1000.00 | 1051.603118 | 105.2 |
| 6 | KB77 | L5 | True | 2500.00 | 2534.867851 | 101.4 |
| 7 | KB78 | L6 | True | 10000.00 | 10483.397789 | 104.8 |
| 8 | KB79 | L7 | True | 20000.00 | 19434.684463 | 97.2 |



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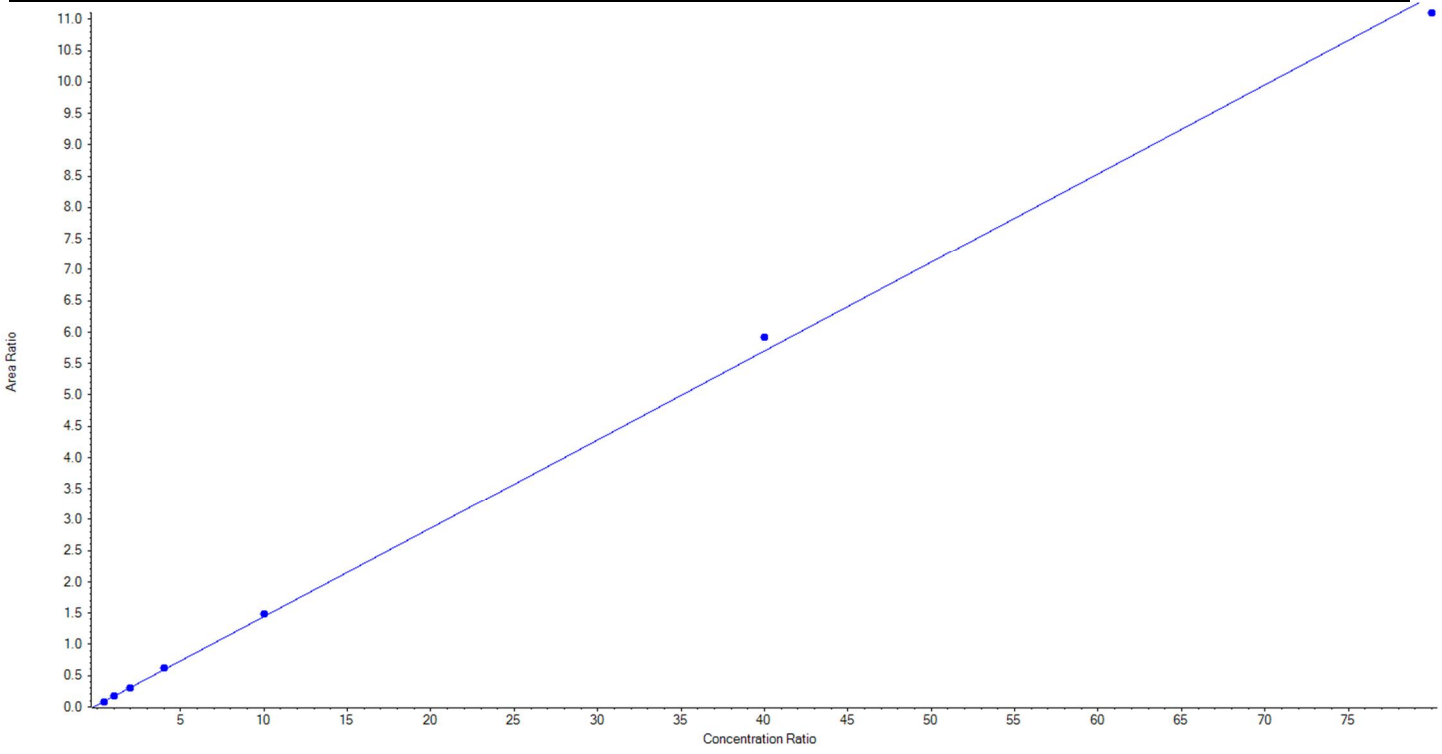
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFDoA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 613.0 / 319.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C2-PFDoA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.14181 x + 0.02745 (r = 0.99951) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 89.771190 | 89.8 |
| 3 | KB74 | L2 | True | 250.00 | 258.318969 | 103.3 |
| 4 | KB75 | L3 | True | 500.00 | 490.819808 | 98.2 |
| 5 | KB76 | L4 | True | 1000.00 | 1045.219534 | 104.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2572.032131 | 102.9 |
| 7 | KB78 | L6 | True | 10000.00 | 10372.966024 | 103.7 |
| 8 | KB79 | L7 | True | 20000.00 | 19520.872343 | 97.6 |



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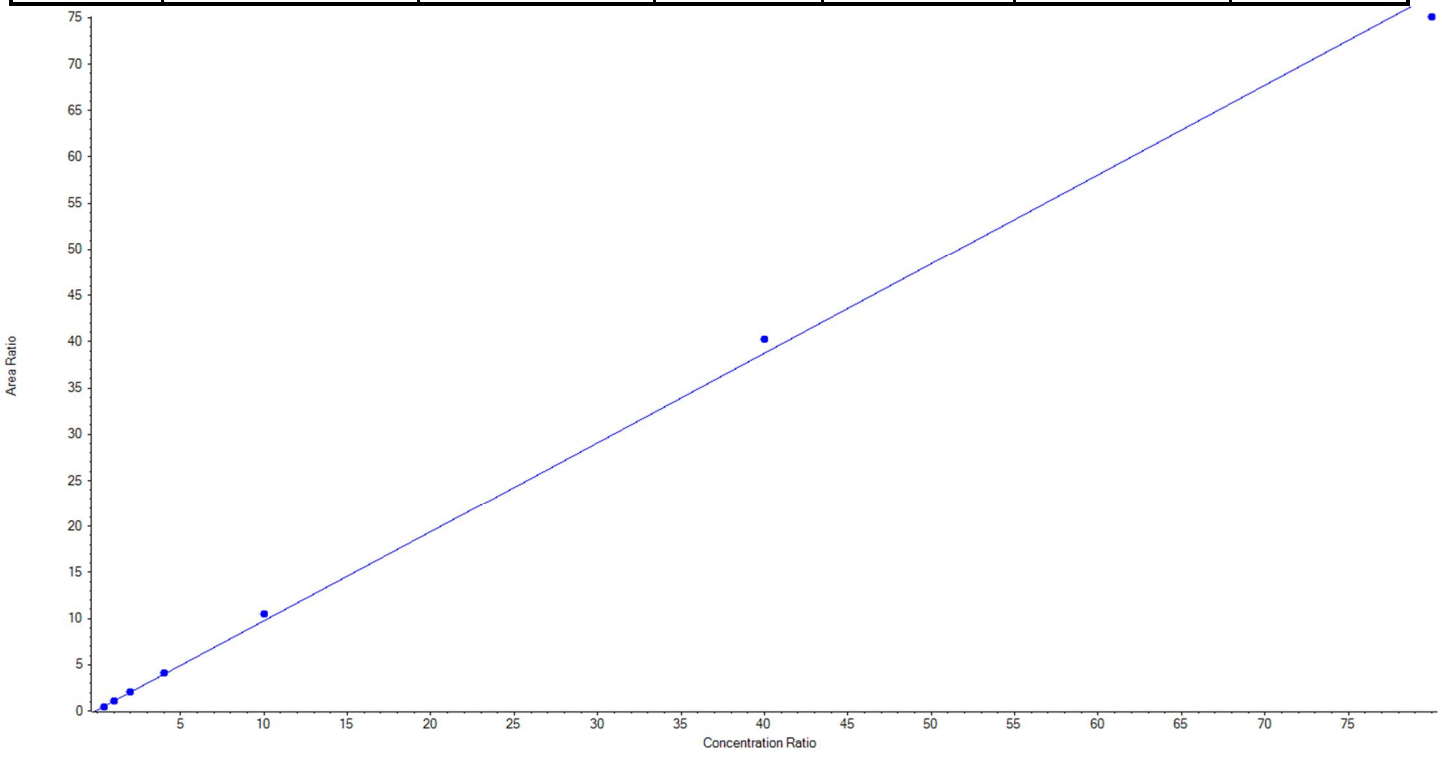
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFTrDA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 663.0 / 619.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.96621 x + 0.09367 (r = 0.99921) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 89.252137 | 89.3 |
| 3 | KB74 | L2 | True | 250.00 | 249.241065 | 99.7 |
| 4 | KB75 | L3 | True | 500.00 | 498.194197 | 99.6 |
| 5 | KB76 | L4 | True | 1000.00 | 1027.562136 | 102.8 |
| 6 | KB77 | L5 | True | 2500.00 | 2693.991009 | 107.8 |
| 7 | KB78 | L6 | True | 10000.00 | 10387.589354 | 103.9 |
| 8 | KB79 | L7 | True | 20000.00 | 19404.170102 | 97.0 |



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Calibration Summary Report

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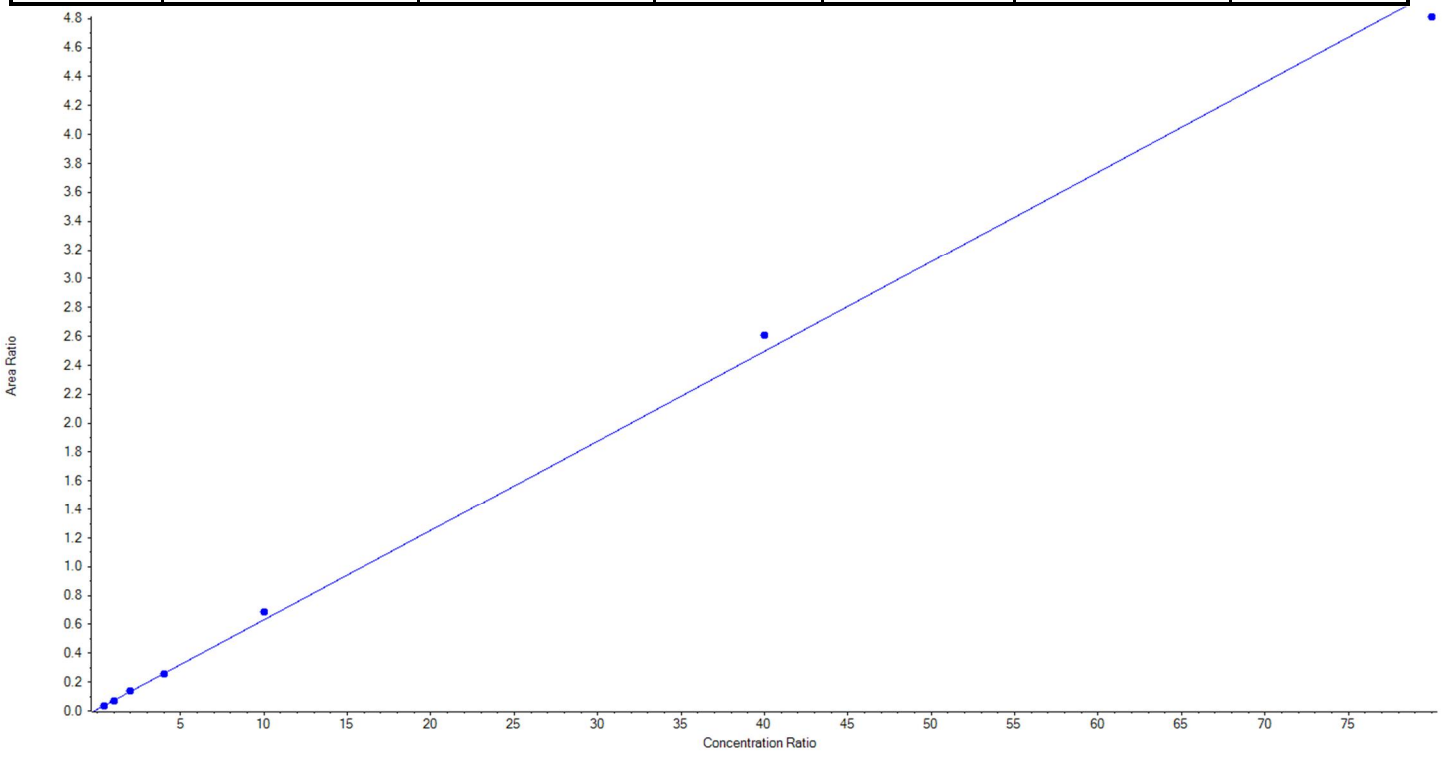
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFTrDA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 663.0 / 169.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.06215 x + 0.01048 (r = 0.99891) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 91.358244 | 91.4 |
| 3 | KB74 | L2 | True | 250.00 | 234.431195 | 93.8 |
| 4 | KB75 | L3 | True | 500.00 | 526.023755 | 105.2 |
| 5 | KB76 | L4 | True | 1000.00 | 992.847328 | 99.3 |
| 6 | KB77 | L5 | True | 2500.00 | 2730.161506 | 109.2 |
| 7 | KB78 | L6 | True | 10000.00 | 10459.488900 | 104.6 |
| 8 | KB79 | L7 | True | 20000.00 | 19315.689073 | 96.6 |



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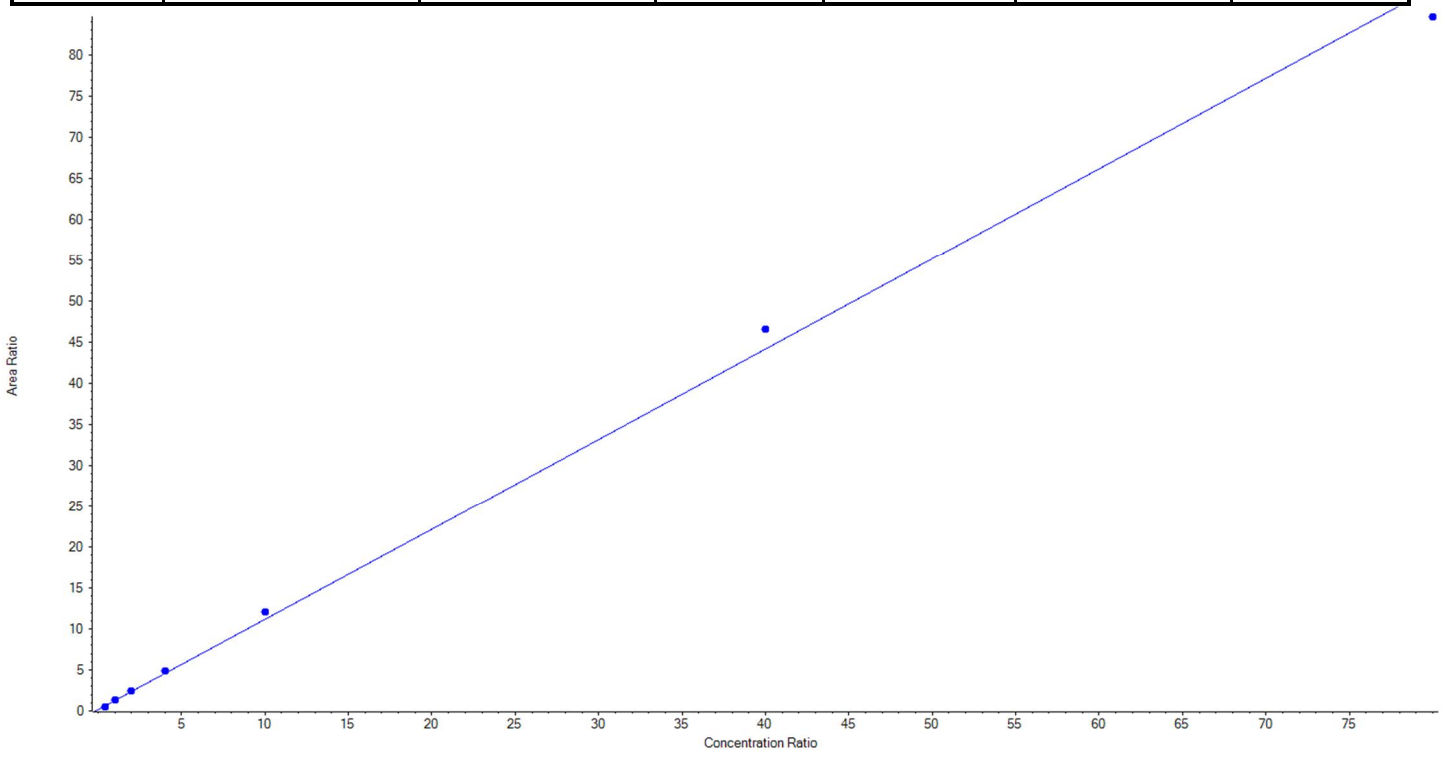
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFTeDA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 713.0 / 669.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.10003 x + 0.17150 (r = 0.99862) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 81.664418 | 81.7 |
| 3 | KB74 | L2 | True | 250.00 | 253.892322 | 101.6 |
| 4 | KB75 | L3 | True | 500.00 | 504.637939 | 100.9 |
| 5 | KB76 | L4 | True | 1000.00 | 1058.184635 | 105.8 |
| 6 | KB77 | L5 | True | 2500.00 | 2716.333041 | 108.7 |
| 7 | KB78 | L6 | True | 10000.00 | 10540.568356 | 105.4 |
| 8 | KB79 | L7 | True | 20000.00 | 19194.719288 | 96.0 |



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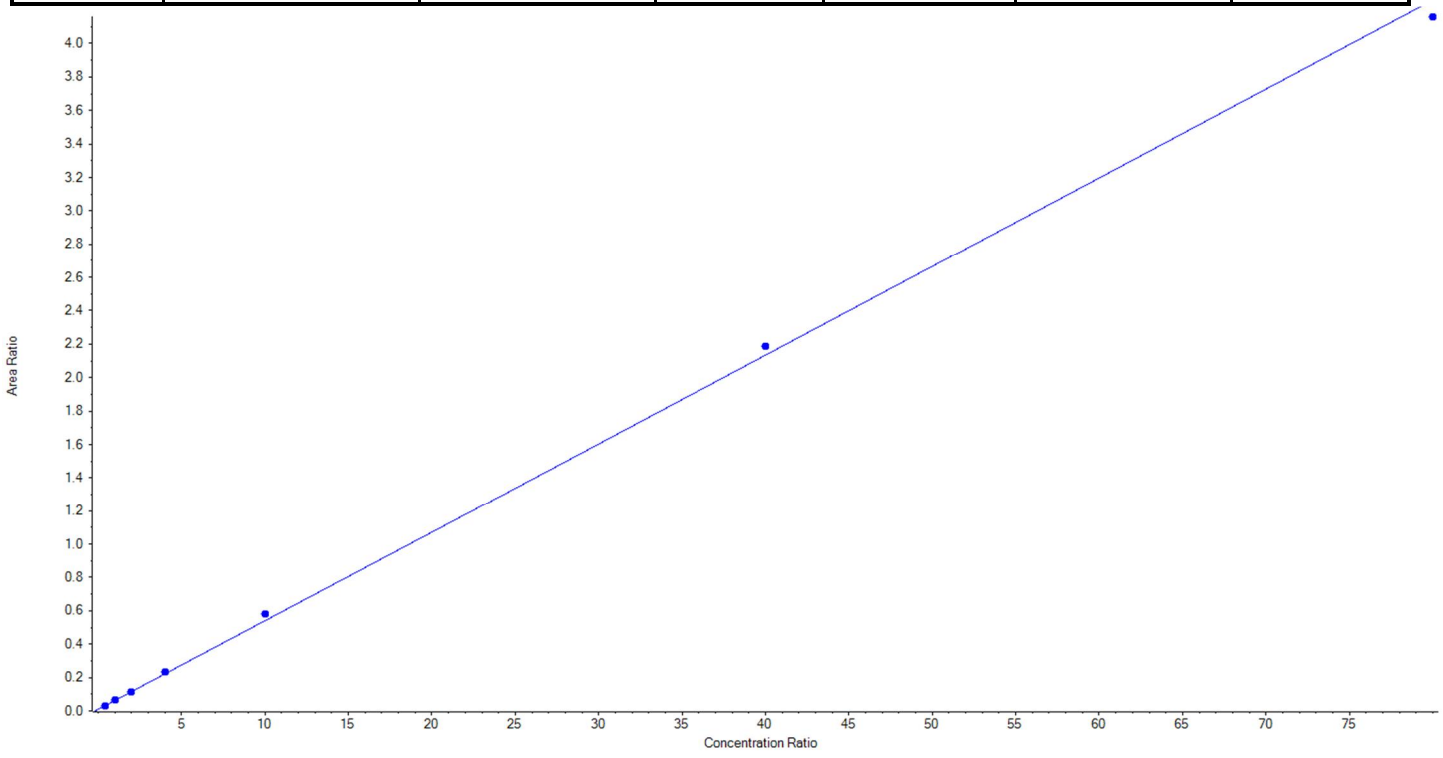
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | PFTeDA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 713.0 / 169.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | 13C2-PFTeDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.05312 x + 0.00951 (r = 0.99940) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 85.351718 | 85.4 |
| 3 | KB74 | L2 | True | 250.00 | 256.536093 | 102.6 |
| 4 | KB75 | L3 | True | 500.00 | 494.590376 | 98.9 |
| 5 | KB76 | L4 | True | 1000.00 | 1051.091061 | 105.1 |
| 6 | KB77 | L5 | True | 2500.00 | 2700.584305 | 108.0 |
| 7 | KB78 | L6 | True | 10000.00 | 10234.811734 | 102.4 |
| 8 | KB79 | L7 | True | 20000.00 | 19527.034713 | 97.6 |



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Calibration Summary Report

Created with Analyst Reporter
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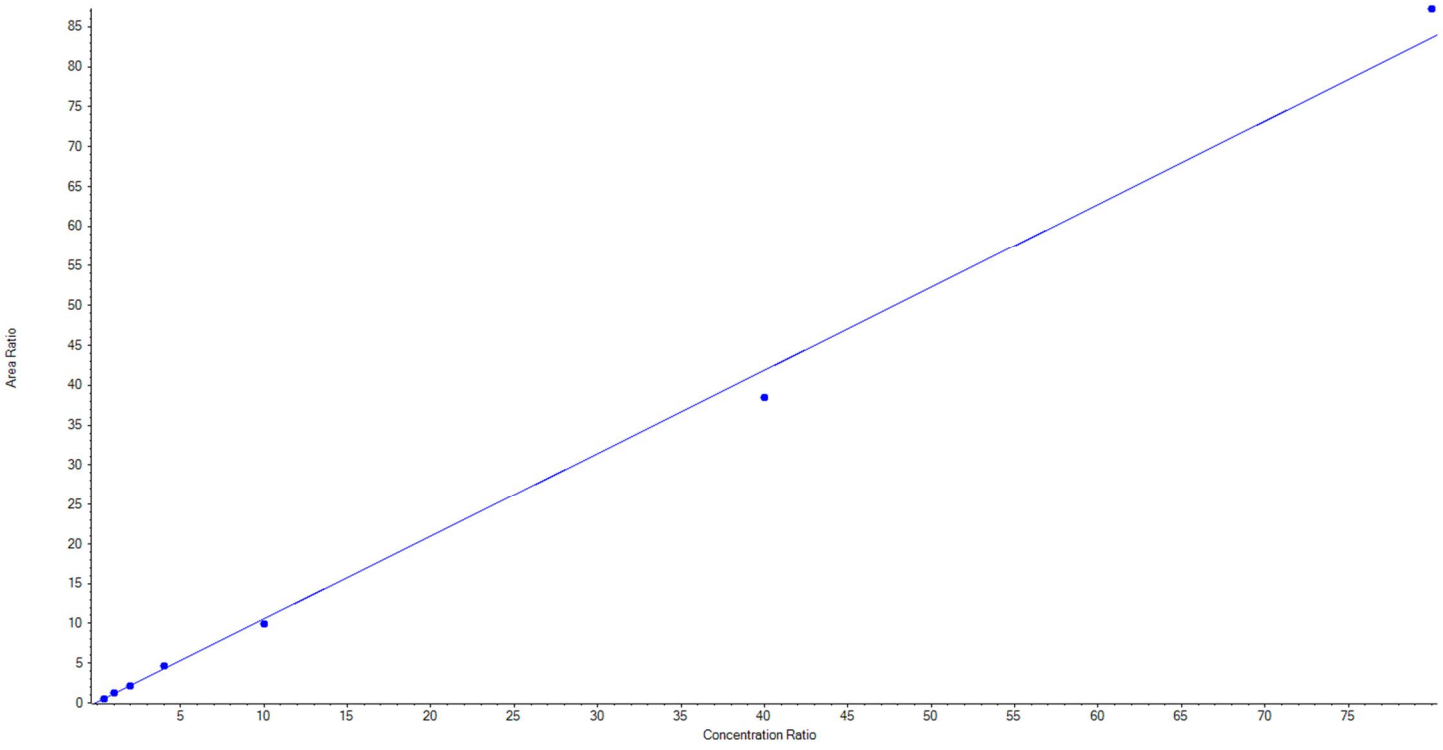
|---|---|---|---|
| **Analyte Name** | NMeFOSAA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 570.0 / 419.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | d3-MeFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.04377 x + 0.12168 (r = 0.99810) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 97.702606 | 97.7 |
| 3 | KB74 | L2 | True | 250.00 | 270.300837 | 108.1 |
| 4 | KB75 | L3 | True | 500.00 | 474.866395 | 95.0 |
| 5 | KB76 | L4 | True | 1000.00 | 1084.703812 | 108.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2361.513725 | 94.5 |
| 7 | KB78 | L6 | True | 10000.00 | 9193.657335 | 91.9 |
| 8 | KB79 | L7 | True | 20000.00 | 20867.255290 | 104.3 |



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Calibration Summary Report

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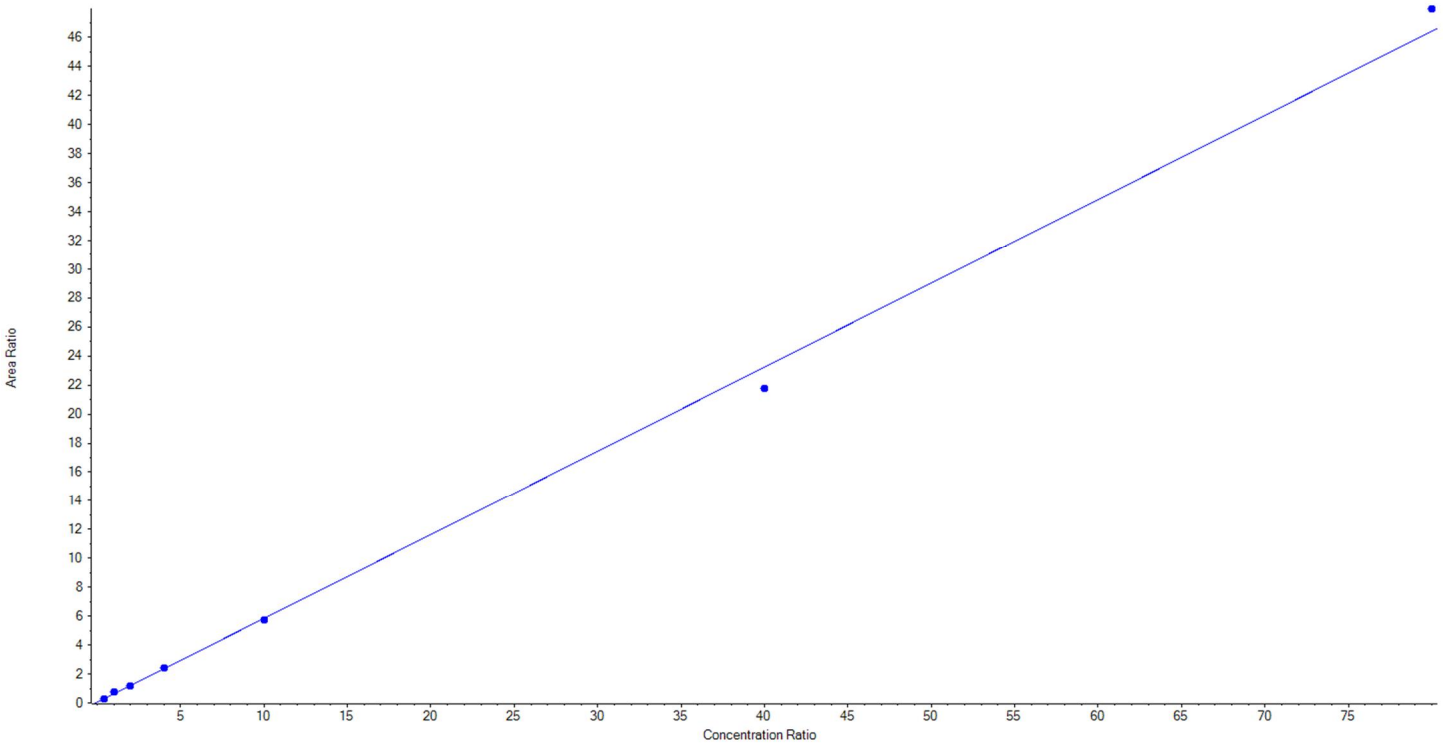
| | | | |
|---|---|---|---|
| **Analyte Name** | NMeFOSAA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 570.0 / 512.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | d3-MeFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.57999 x + 0.04045 (r = 0.99882) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 88.881031 | 88.9 |
| 3 | KB74 | L2 | True | 250.00 | 298.534462 | 119.4 |
| 4 | KB75 | L3 | True | 500.00 | 476.944765 | 95.4 |
| 5 | KB76 | L4 | True | 1000.00 | 1013.211747 | 101.3 |
| 6 | KB77 | L5 | True | 2500.00 | 2451.833697 | 98.1 |
| 7 | KB78 | L6 | True | 10000.00 | 9363.747452 | 93.6 |
| 8 | KB79 | L7 | True | 20000.00 | 20656.846846 | 103.3 |



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Calibration Summary Report

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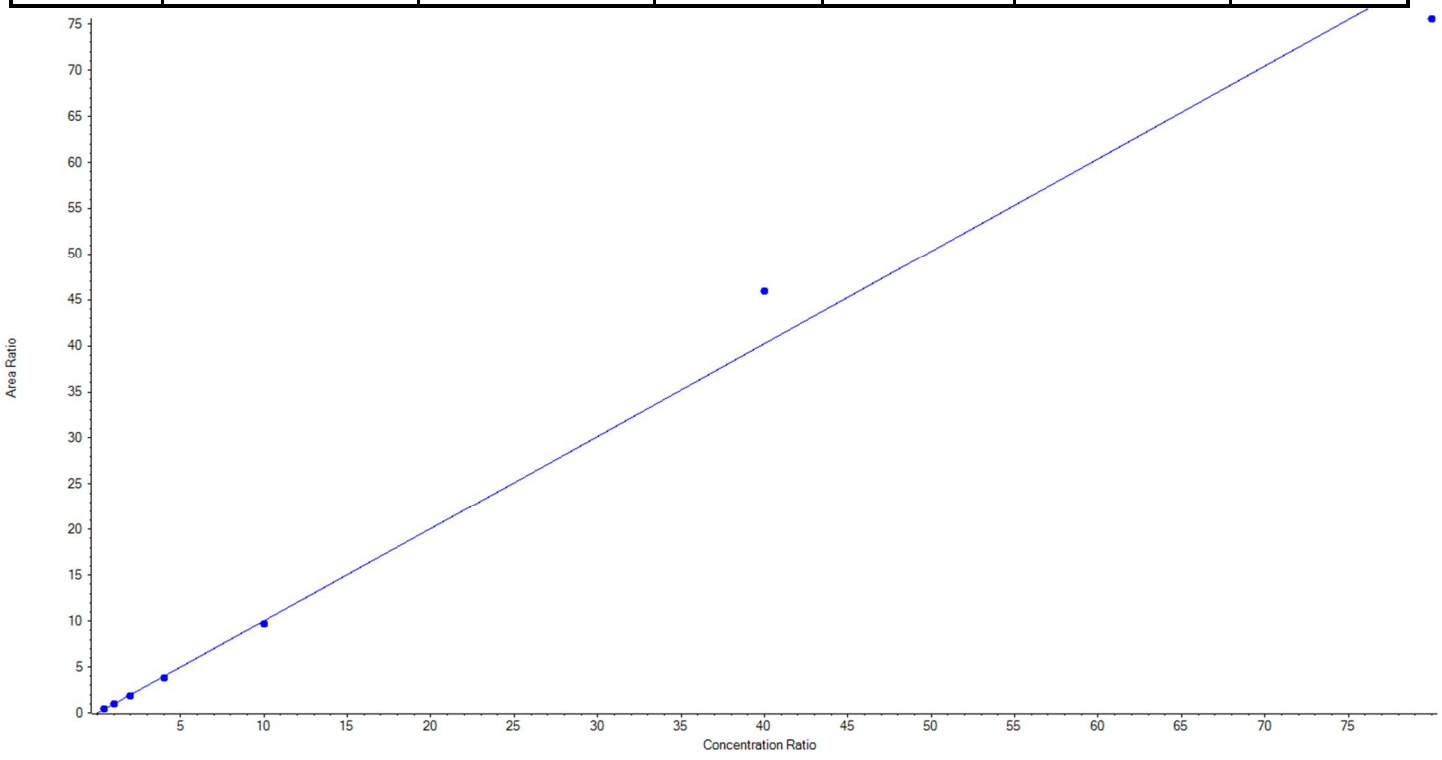
| | | | |
|---|---|---|---|
| **Analyte Name** | NEtFOSAA_1 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 584.0 / 419.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | d5-EtFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.00705 x + -0.04135 (r = 0.99555) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 111.213907 | 111.2 |
| 3 | KB74 | L2 | True | 250.00 | 243.571968 | 97.4 |
| 4 | KB75 | L3 | True | 500.00 | 459.435665 | 91.9 |
| 5 | KB76 | L4 | True | 1000.00 | 949.960545 | 95.0 |
| 6 | KB77 | L5 | True | 2500.00 | 2415.081451 | 96.6 |
| 7 | KB78 | L6 | True | 10000.00 | 11403.435561 | 114.0 |
| 8 | KB79 | L7 | True | 20000.00 | 18767.300903 | 93.8 |



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Calibration Summary Report

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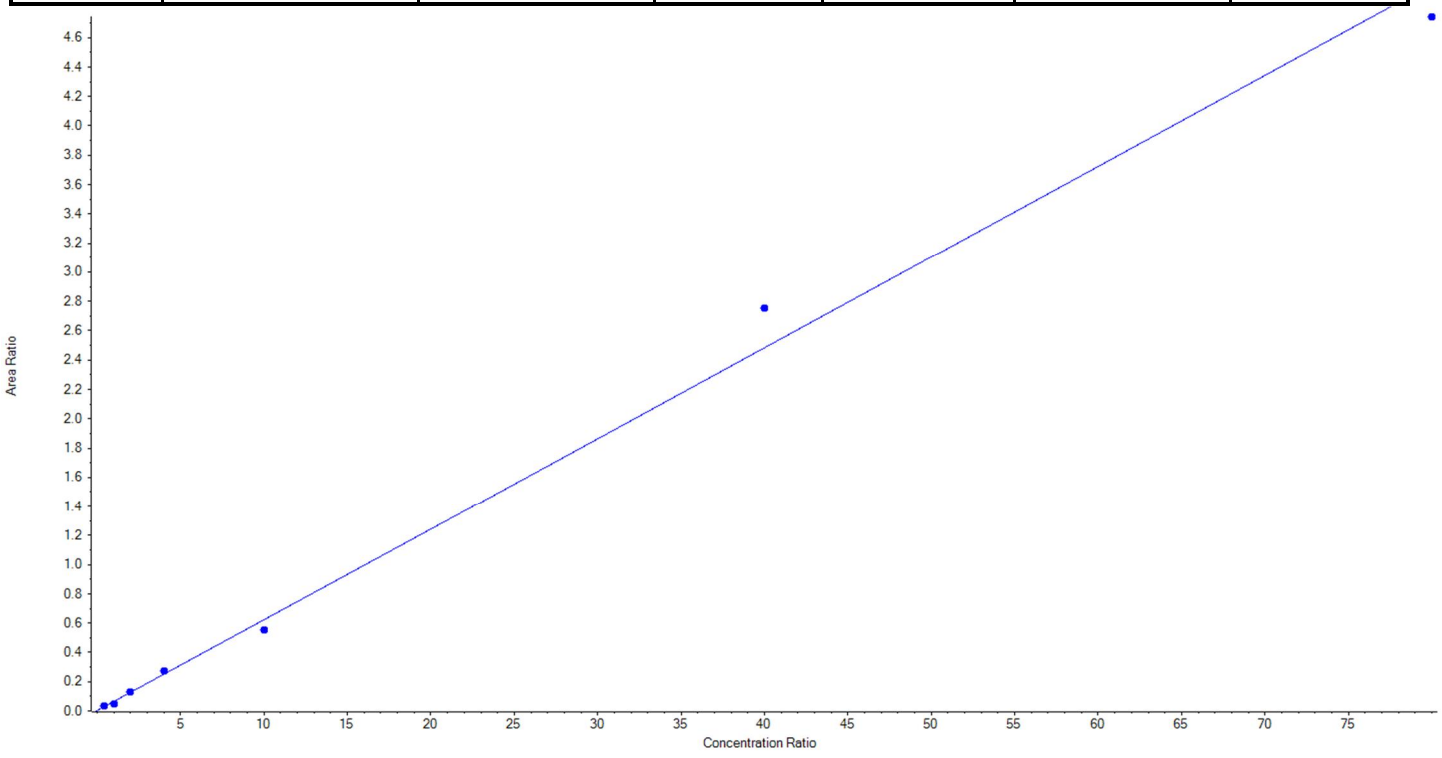
Printed: 22/10/2018 12:06:41 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | NEtFOSAA_2 | **Data File** | 18-0601.wiff |
| **MRM Transition** | 584.0 / 483.0 | **Result Table** | 18-0580A_BASE |
| **Internal Standard** | d5-EtFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.06200 x + 0.00309 (r = 0.99661) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 113.055246 | 113.1 |
| 3 | KB74 | L2 | True | 250.00 | 192.274109 | 76.9 |
| 4 | KB75 | L3 | True | 500.00 | 523.159531 | 104.6 |
| 5 | KB76 | L4 | True | 1000.00 | 1098.825316 | 109.9 |
| 6 | KB77 | L5 | True | 2500.00 | 2227.146413 | 89.1 |
| 7 | KB78 | L6 | True | 10000.00 | 11091.423822 | 110.9 |
| 8 | KB79 | L7 | True | 20000.00 | 19104.115563 | 95.5 |



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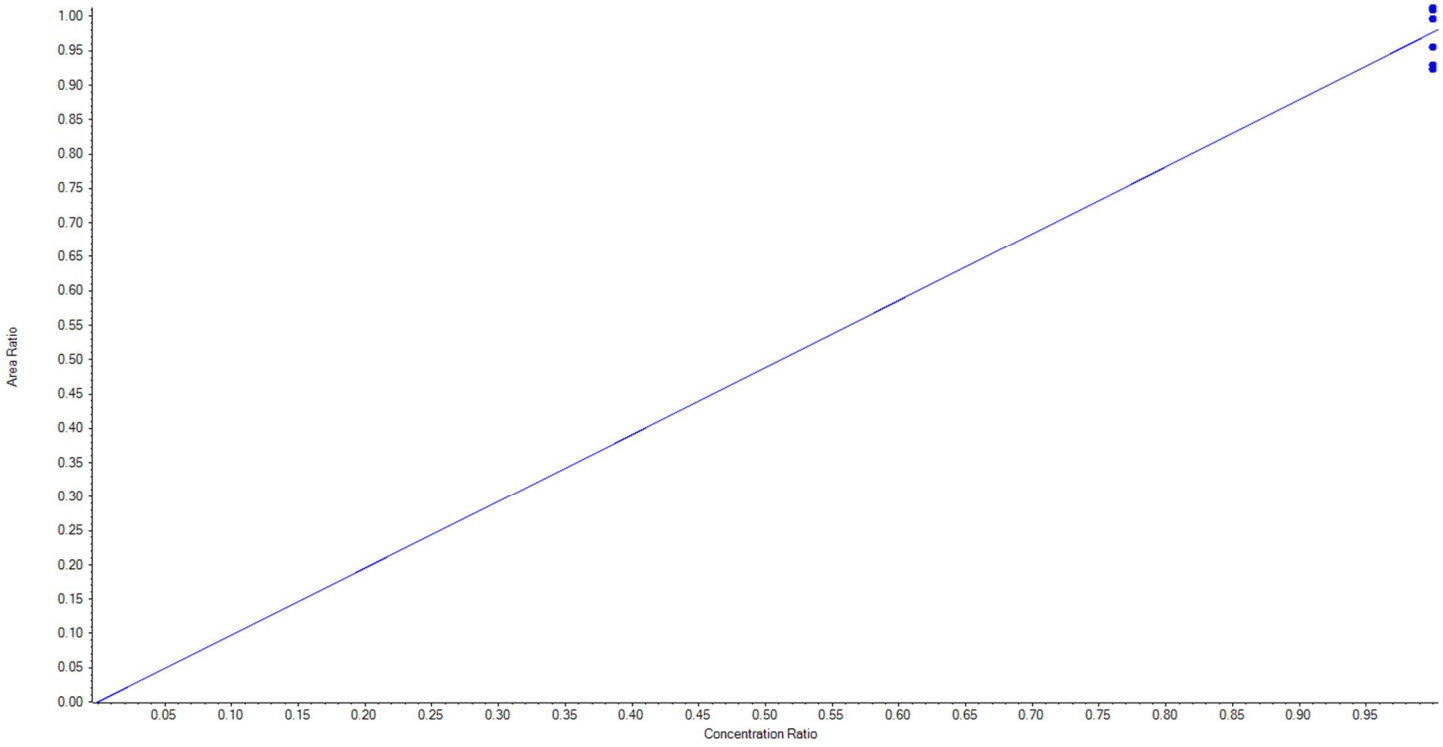
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C2-PFDoA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 615.0 / 570.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.97677 x (std. dev. = 0.03950) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 258.500708 | 103.4 |
| 3 | KB74 | L2 | True | 250.00 | 255.170058 | 102.1 |
| 4 | KB75 | L3 | True | 250.00 | 237.686720 | 95.1 |
| 5 | KB76 | L4 | True | 250.00 | 236.489871 | 94.6 |
| 6 | KB77 | L5 | True | 250.00 | 244.725664 | 97.9 |
| 7 | KB78 | L6 | True | 250.00 | 259.116885 | 103.7 |
| 8 | KB79 | L7 | True | 250.00 | 258.310095 | 103.3 |



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Calibration Summary Report

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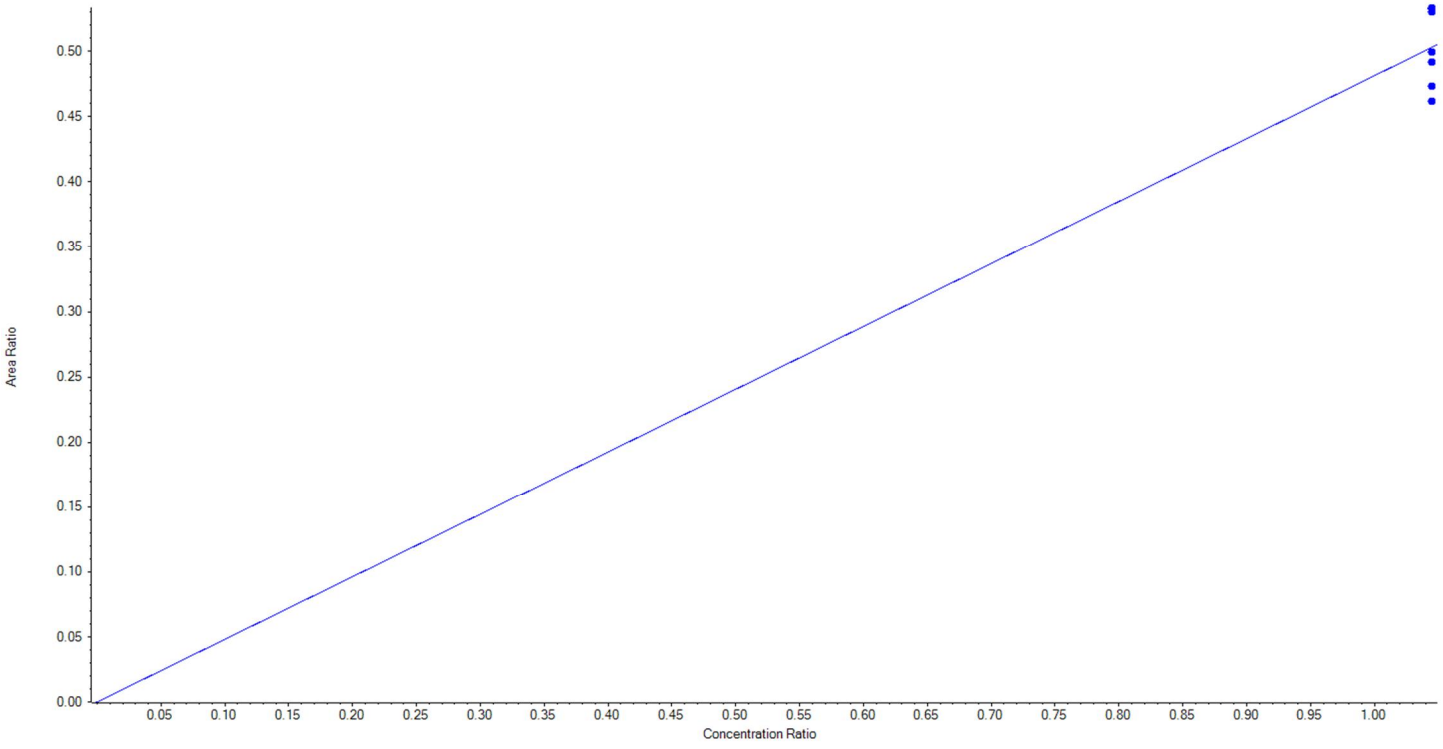
| | | | |
|---|---|---|---|
| **Analyte Name** | d3-MeFOSAA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 573.0 / 419.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.48131 x (std. dev. = 0.02834) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 265.038957 | 106.0 |
| 3 | KB74 | L2 | True | 250.00 | 229.387671 | 91.8 |
| 4 | KB75 | L3 | True | 250.00 | 264.549518 | 105.8 |
| 5 | KB76 | L4 | True | 250.00 | 244.355224 | 97.7 |
| 6 | KB77 | L5 | True | 250.00 | 248.061714 | 99.2 |
| 7 | KB78 | L6 | True | 250.00 | 235.150088 | 94.1 |
| 8 | KB79 | L7 | True | 250.00 | 263.456828 | 105.4 |



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Calibration Summary Report



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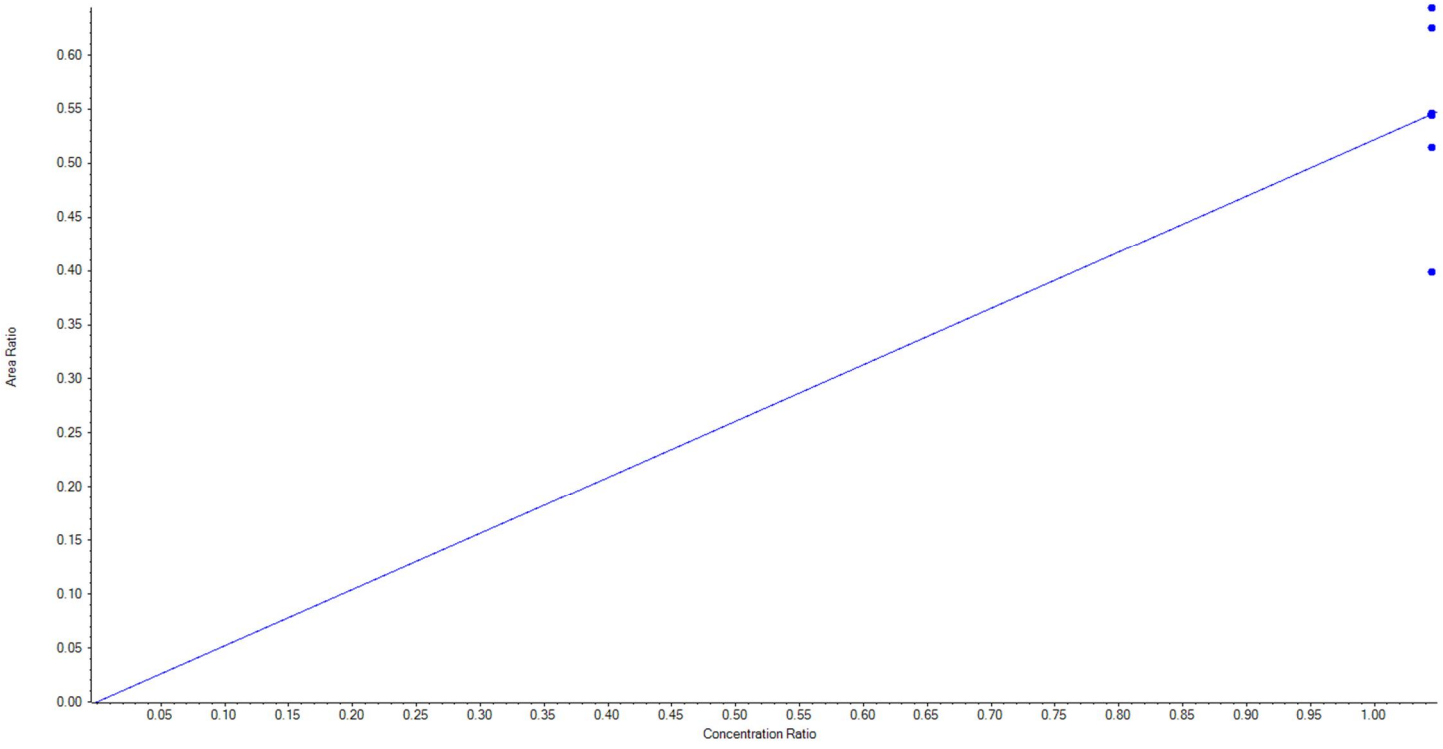
|---|---|---|---|
| **Analyte Name** | d5-EtFOSAA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 589.0 / 419.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.52182 x (std. dev. = 0.07654) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 250.047206 | 100.0 |
| 3 | KB74 | L2 | True | 250.00 | 286.441908 | 114.6 |
| 4 | KB75 | L3 | True | 250.00 | 295.041431 | 118.0 |
| 5 | KB76 | L4 | True | 250.00 | 250.345681 | 100.1 |
| 6 | KB77 | L5 | True | 250.00 | 235.944297 | 94.4 |
| 7 | KB78 | L6 | True | 250.00 | 182.824015 | 73.1 |
| 8 | KB79 | L7 | True | 250.00 | 249.355462 | 99.7 |



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Calibration Summary Report

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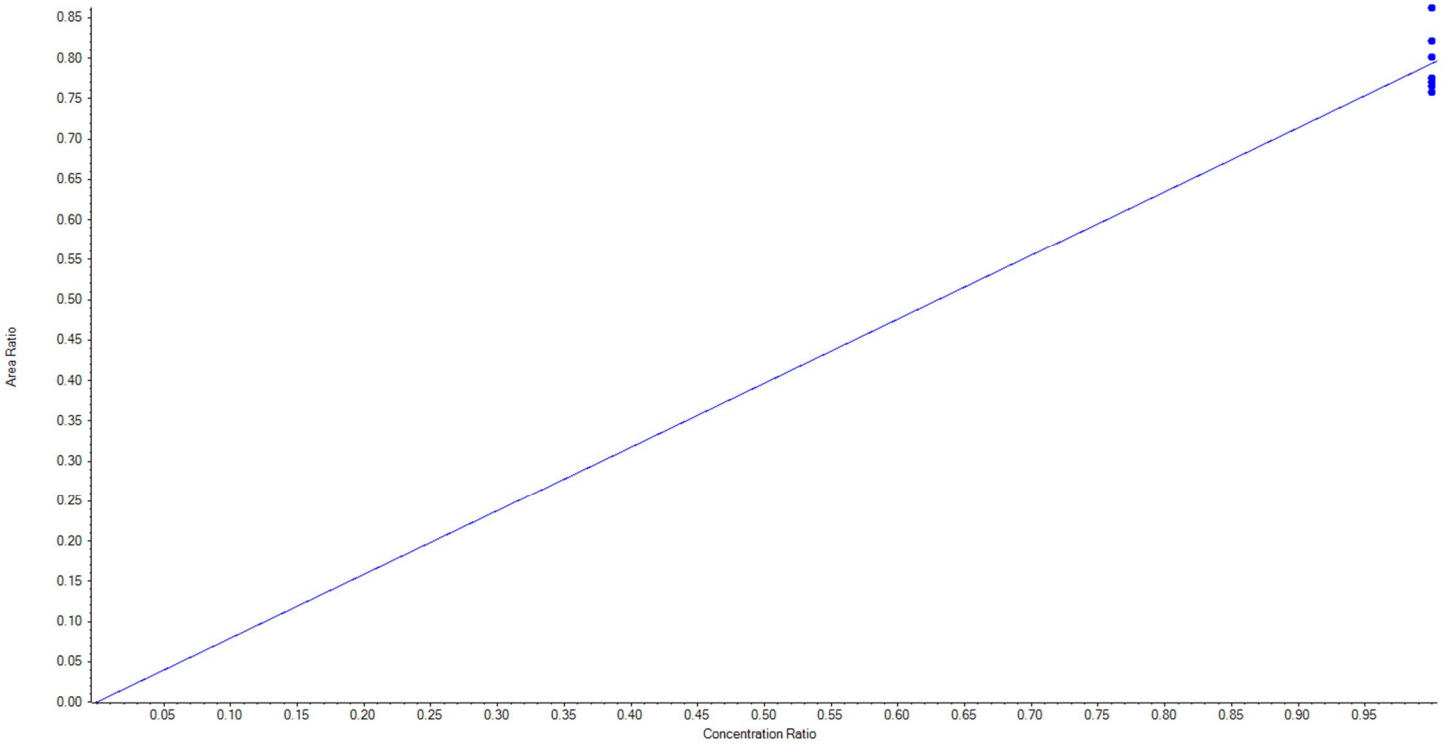
|---|---|---|---|
| **Analyte Name** | 13C5-PFHxA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 318.0 / 273.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.79340 x (std. dev. = 0.03745) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 252.344194 | 100.9 |
| 3 | KB74 | L2 | True | 250.00 | 244.342821 | 97.7 |
| 4 | KB75 | L3 | True | 250.00 | 258.675787 | 103.5 |
| 5 | KB76 | L4 | True | 250.00 | 241.044127 | 96.4 |
| 6 | KB77 | L5 | True | 250.00 | 242.891692 | 97.2 |
| 7 | KB78 | L6 | True | 250.00 | 239.001083 | 95.6 |
| 8 | KB79 | L7 | True | 250.00 | 271.700296 | 108.7 |



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Calibration Summary Report



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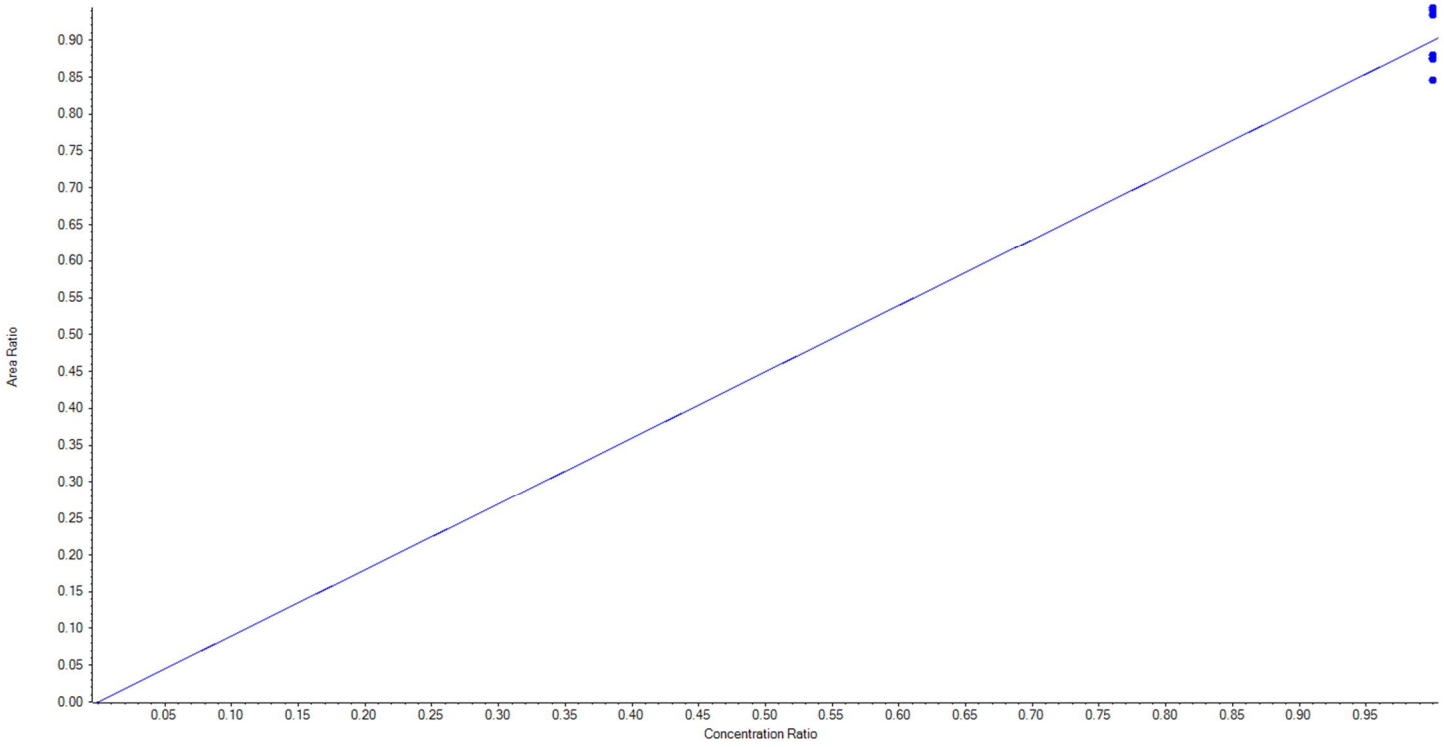
|---|---|---|---|
| **Analyte Name** | 13C4-PFHpA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 367.0 / 322.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.89917 x (std. dev. = 0.03960) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 261.654960 | 104.7 |
| 3 | KB74 | L2 | True | 250.00 | 244.514684 | 97.8 |
| 4 | KB75 | L3 | True | 250.00 | 259.855420 | 103.9 |
| 5 | KB76 | L4 | True | 250.00 | 243.044007 | 97.2 |
| 6 | KB77 | L5 | True | 250.00 | 235.223263 | 94.1 |
| 7 | KB78 | L6 | True | 250.00 | 243.333341 | 97.3 |
| 8 | KB79 | L7 | True | 250.00 | 262.374325 | 105.0 |



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Calibration Summary Report

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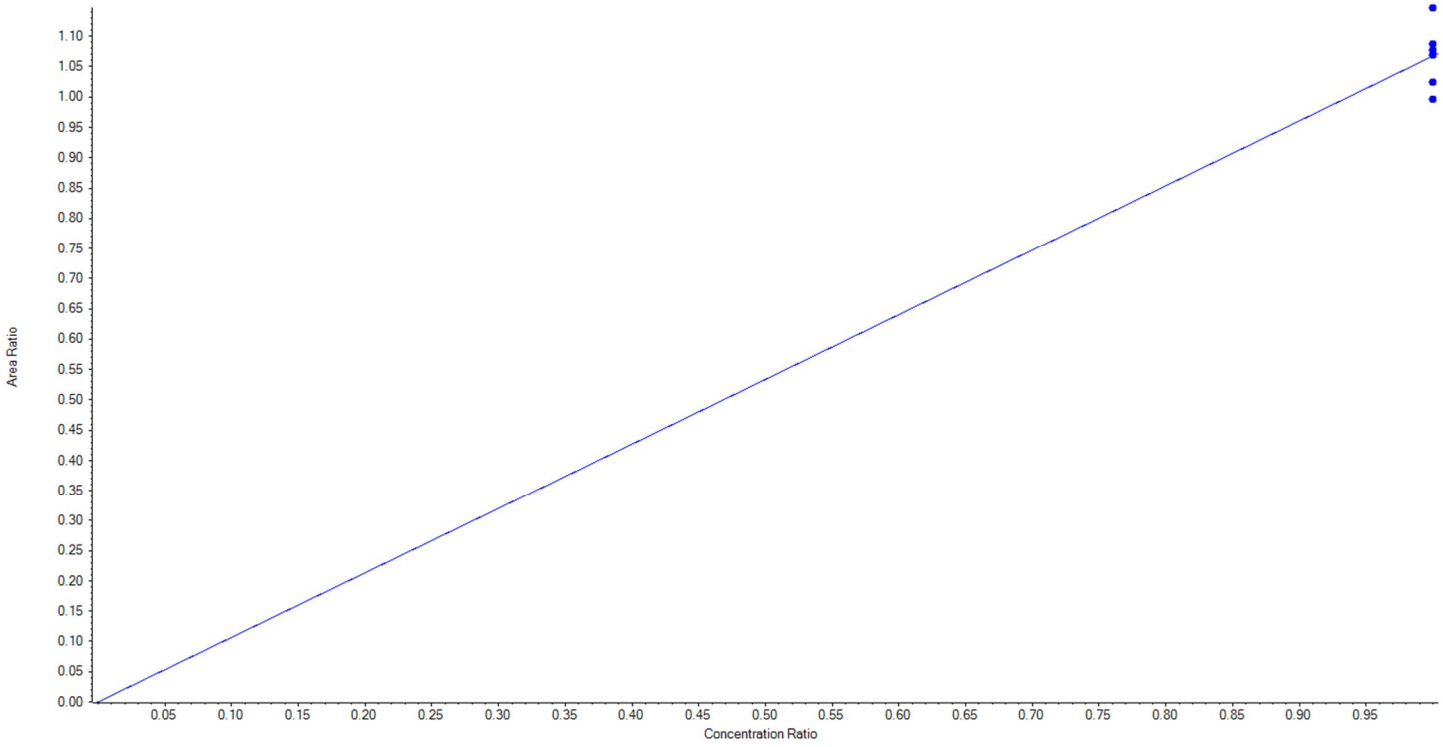
|---|---|---|---|
| **Analyte Name** | 13C8-PFOA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 421.0 / 376.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.06735 x (std. dev. = 0.04777) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 239.840388 | 95.9 |
| 3 | KB74 | L2 | True | 250.00 | 252.420669 | 101.0 |
| 4 | KB75 | L3 | True | 250.00 | 254.787601 | 101.9 |
| 5 | KB76 | L4 | True | 250.00 | 268.555463 | 107.4 |
| 6 | KB77 | L5 | True | 250.00 | 250.486670 | 100.2 |
| 7 | KB78 | L6 | True | 250.00 | 233.431611 | 93.4 |
| 8 | KB79 | L7 | True | 250.00 | 250.477598 | 100.2 |



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Calibration Summary Report

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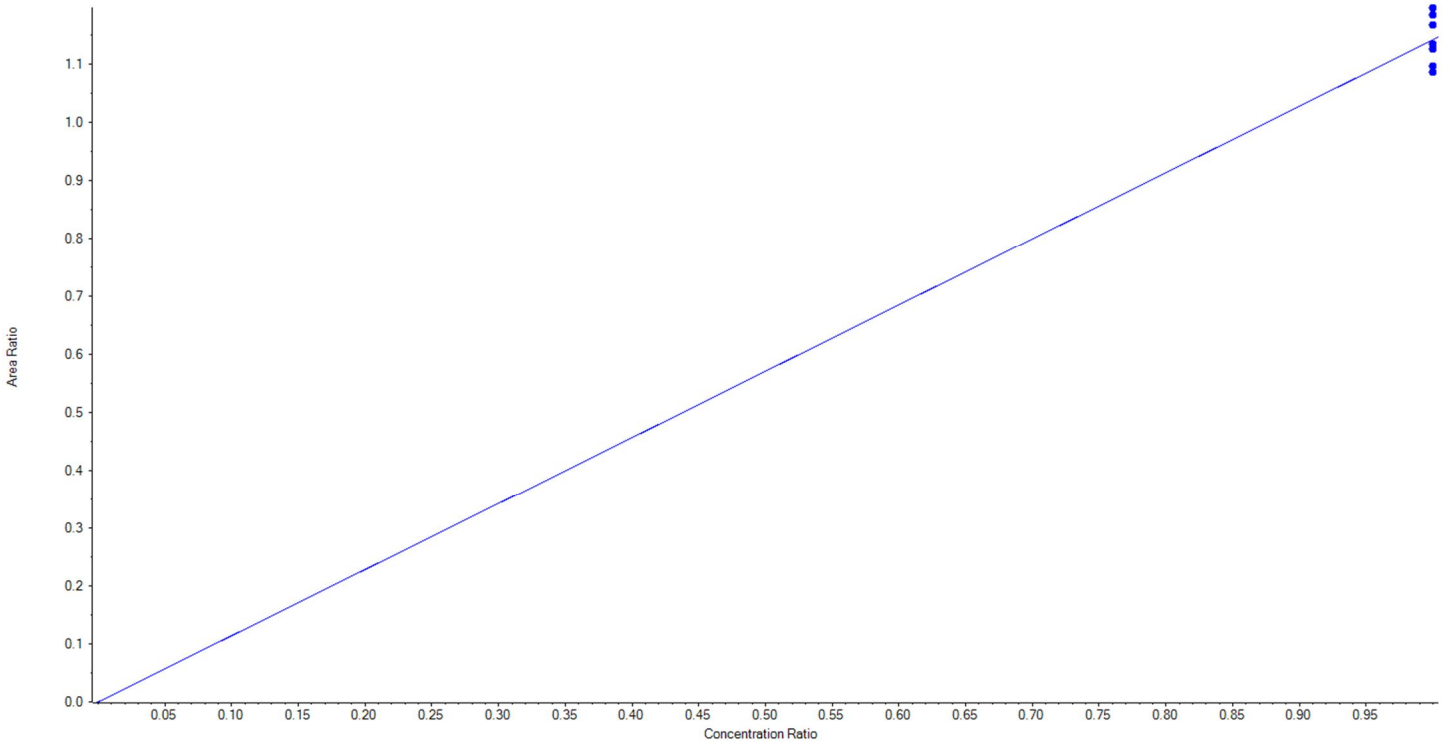
| | | | |
|---|---|---|---|
| **Analyte Name** | 13C9-PFNA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 472.0 / 427.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFOA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.14250 x (std. dev. = 0.04286) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 240.220252 | 96.1 |
| 3 | KB74 | L2 | True | 250.00 | 261.995376 | 104.8 |
| 4 | KB75 | L3 | True | 250.00 | 259.505207 | 103.8 |
| 5 | KB76 | L4 | True | 250.00 | 248.487072 | 99.4 |
| 6 | KB77 | L5 | True | 250.00 | 246.350816 | 98.5 |
| 7 | KB78 | L6 | True | 250.00 | 255.682528 | 102.3 |
| 8 | KB79 | L7 | True | 250.00 | 237.758750 | 95.1 |



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Calibration Summary Report



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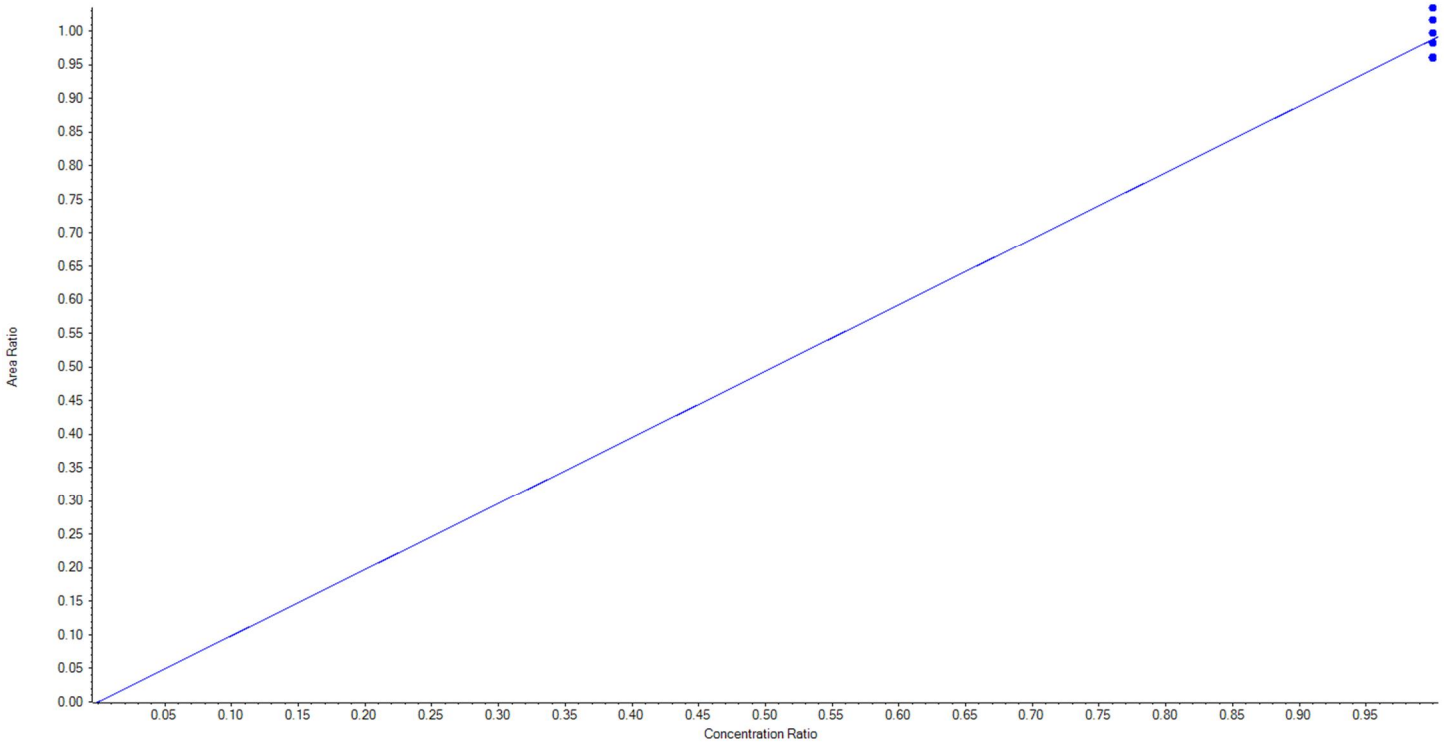
|---|---|---|---|
| **Analyte Name** | 13C6-PFDA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 519.0 / 474.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.98773 x (std. dev. = 0.02988) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 257.474350 | 103.0 |
| 3 | KB74 | L2 | True | 250.00 | 248.504308 | 99.4 |
| 4 | KB75 | L3 | True | 250.00 | 261.874670 | 104.8 |
| 5 | KB76 | L4 | True | 250.00 | 243.364521 | 97.4 |
| 6 | KB77 | L5 | True | 250.00 | 252.483885 | 101.0 |
| 7 | KB78 | L6 | True | 250.00 | 243.176304 | 97.3 |
| 8 | KB79 | L7 | True | 250.00 | 243.121962 | 97.3 |



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Calibration Summary Report



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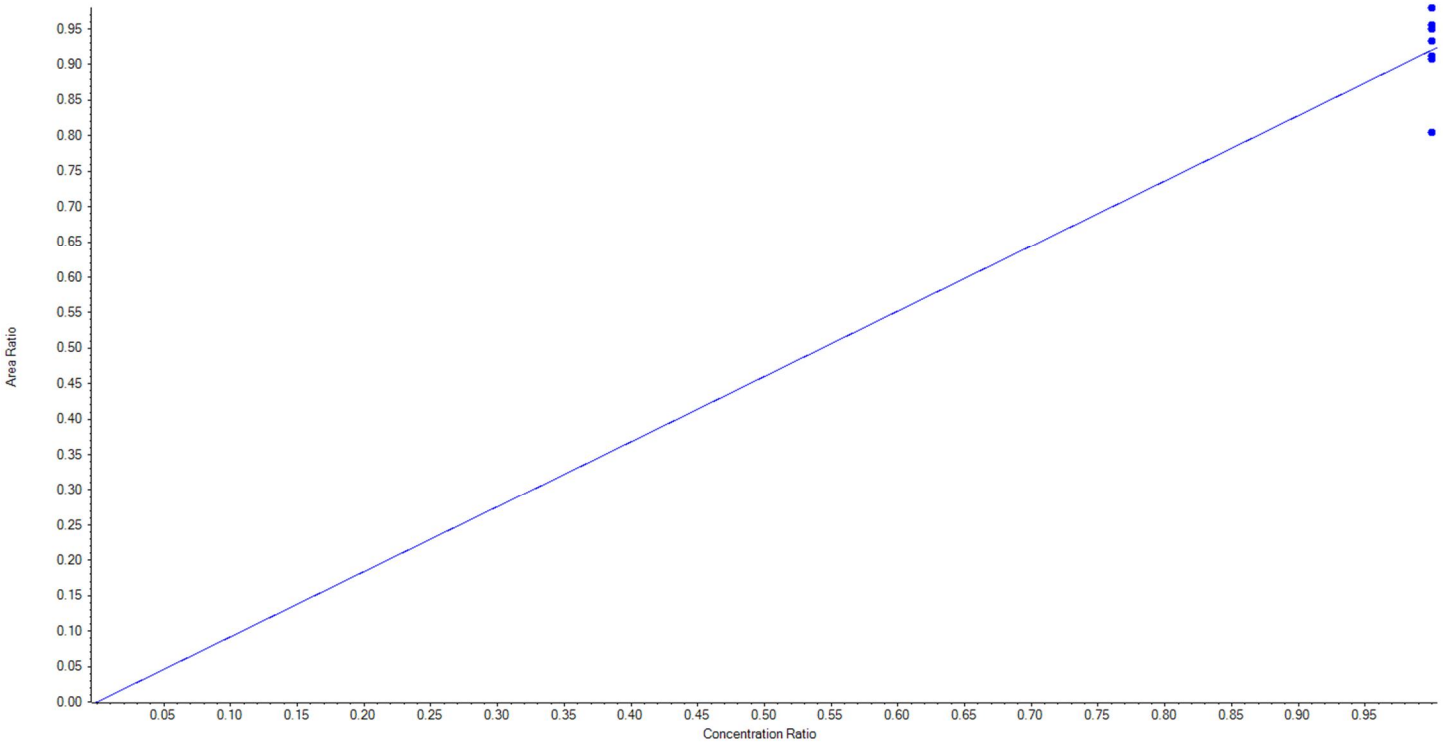
|---|---|---|---|
| **Analyte Name** | 13C7-PFUnA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 570.0 / 525.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.92035 x (std. dev. = 0.05701) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 259.403586 | 103.8 |
| 3 | KB74 | L2 | True | 250.00 | 266.113351 | 106.5 |
| 4 | KB75 | L3 | True | 250.00 | 253.532677 | 101.4 |
| 5 | KB76 | L4 | True | 250.00 | 247.793995 | 99.1 |
| 6 | KB77 | L5 | True | 250.00 | 246.488011 | 98.6 |
| 7 | KB78 | L6 | True | 250.00 | 258.198717 | 103.3 |
| 8 | KB79 | L7 | True | 250.00 | 218.469663 | 87.4 |



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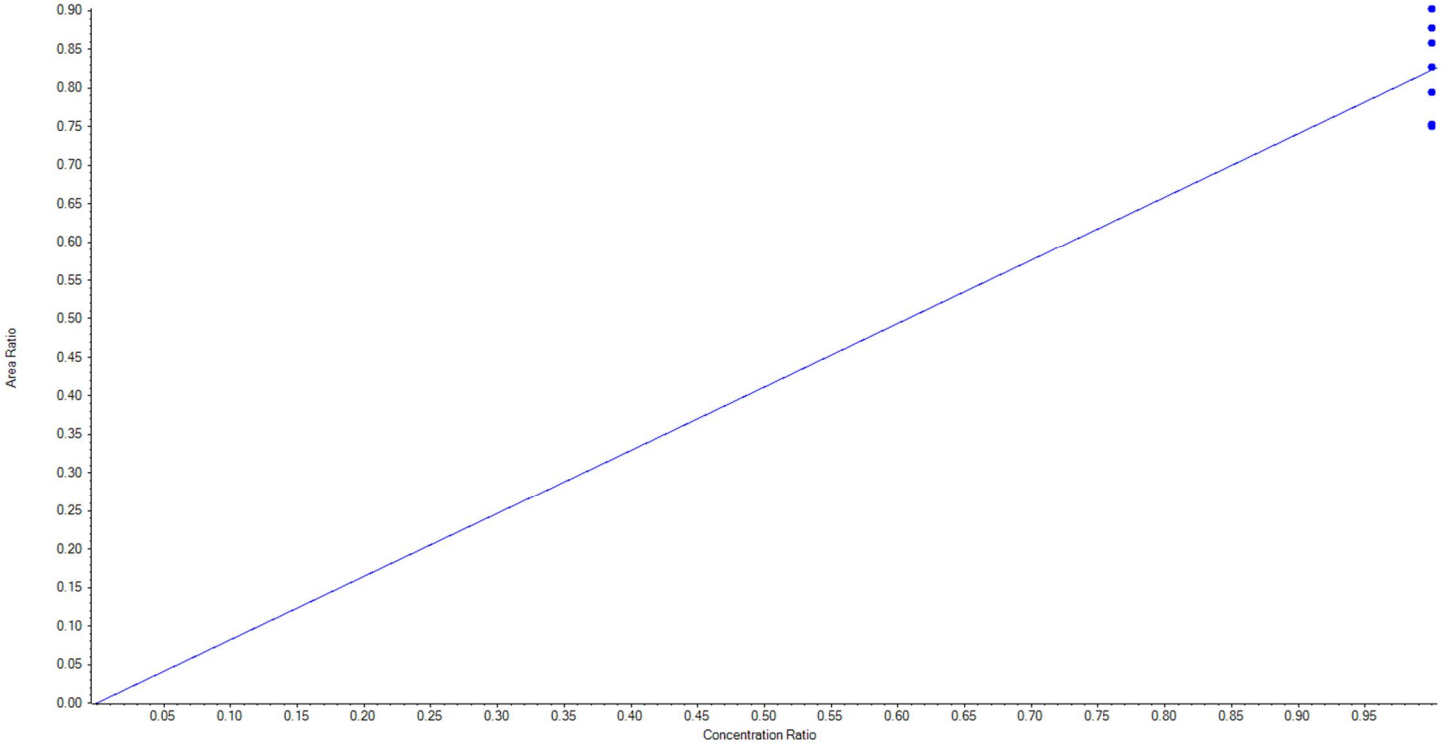
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C2-PFTeDA | **Data File** | 18-0601.wiff |
| **MRM Transition** | 715.0 / 670.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C2-PFDA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.82314 x (std. dev. = 0.06022) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 274.071997 | 109.6 |
| 3 | KB74 | L2 | True | 250.00 | 260.776024 | 104.3 |
| 4 | KB75 | L3 | True | 250.00 | 241.309248 | 96.5 |
| 5 | KB76 | L4 | True | 250.00 | 227.675736 | 91.1 |
| 6 | KB77 | L5 | True | 250.00 | 228.552747 | 91.4 |
| 7 | KB78 | L6 | True | 250.00 | 250.988736 | 100.4 |
| 8 | KB79 | L7 | True | 250.00 | 266.625511 | 106.7 |



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Calibration Summary Report

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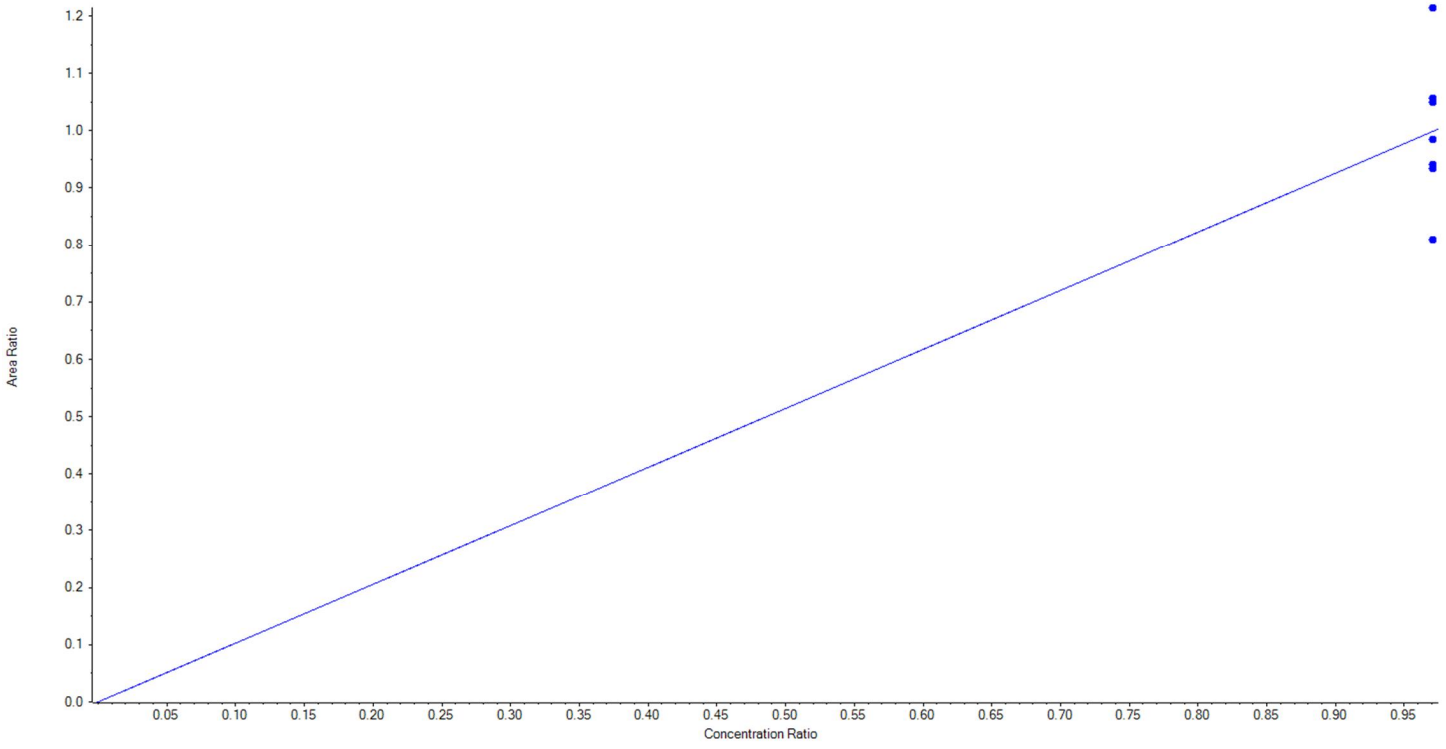
| | | | |
|---|---|---|---|
| **Analyte Name** | 13C3-PFBS | **Data File** | 18-0601.wiff |
| **MRM Transition** | 302.0 / 99.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 1.02890 x (std. dev. = 0.12985) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 232.25 | 218.998363 | 94.3 |
| 3 | KB74 | L2 | True | 232.25 | 243.887307 | 105.0 |
| 4 | KB75 | L3 | True | 232.25 | 245.747673 | 105.8 |
| 5 | KB76 | L4 | True | 232.25 | 229.153269 | 98.7 |
| 6 | KB77 | L5 | True | 232.25 | 188.375930 | 81.1 |
| 7 | KB78 | L6 | True | 232.25 | 217.304120 | 93.6 |
| 8 | KB79 | L7 | True | 232.25 | 282.283339 | 121.5 |



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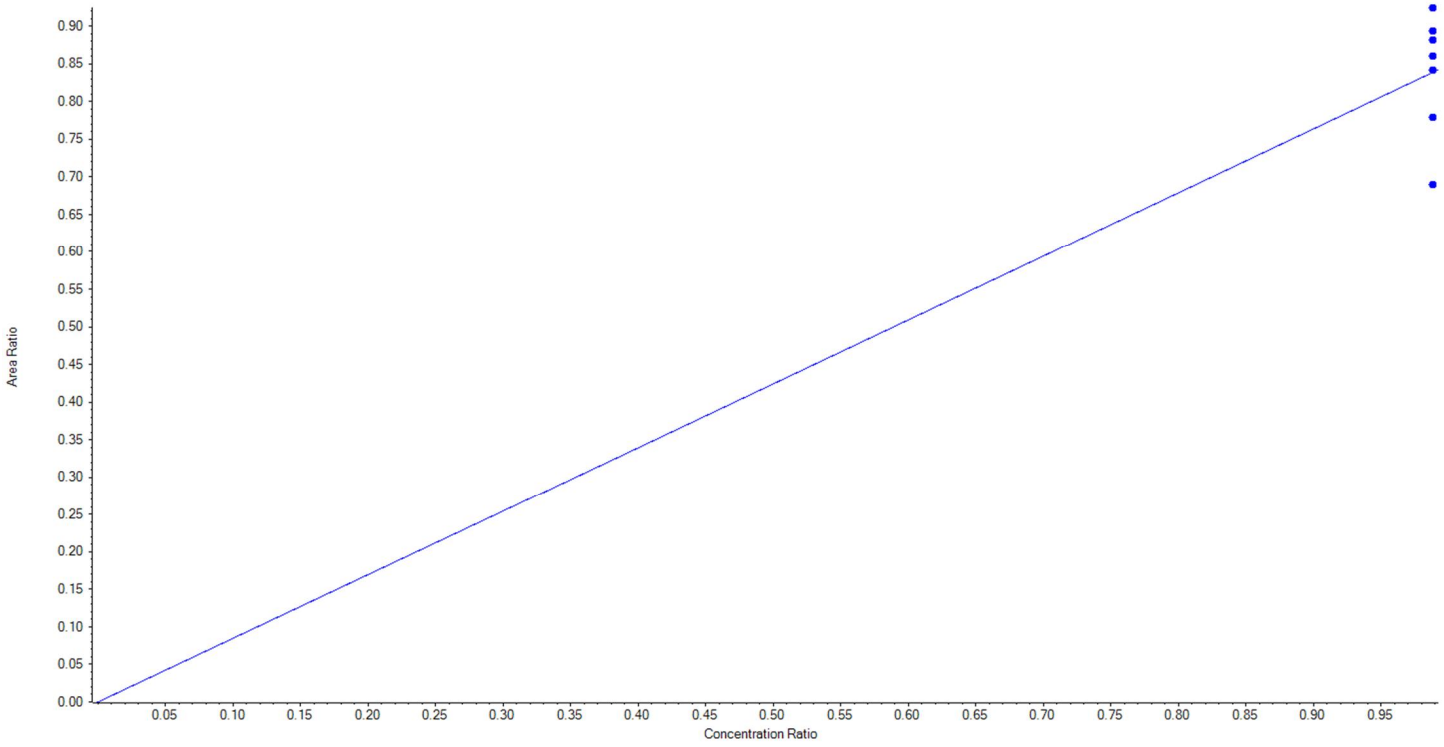
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | 13C3-PFHxS | **Data File** | 18-0601.wiff |
| **MRM Transition** | 402.0 / 99.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.84854 x (std. dev. = 0.08081) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 236.50 | 242.607727 | 102.6 |
| 3 | KB74 | L2 | True | 236.50 | 237.440480 | 100.4 |
| 4 | KB75 | L3 | True | 236.50 | 260.613088 | 110.2 |
| 5 | KB76 | L4 | True | 236.50 | 219.602003 | 92.9 |
| 6 | KB77 | L5 | True | 236.50 | 248.421540 | 105.0 |
| 7 | KB78 | L6 | True | 236.50 | 194.653402 | 82.3 |
| 8 | KB79 | L7 | True | 236.50 | 252.161761 | 106.6 |



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Calibration Summary Report

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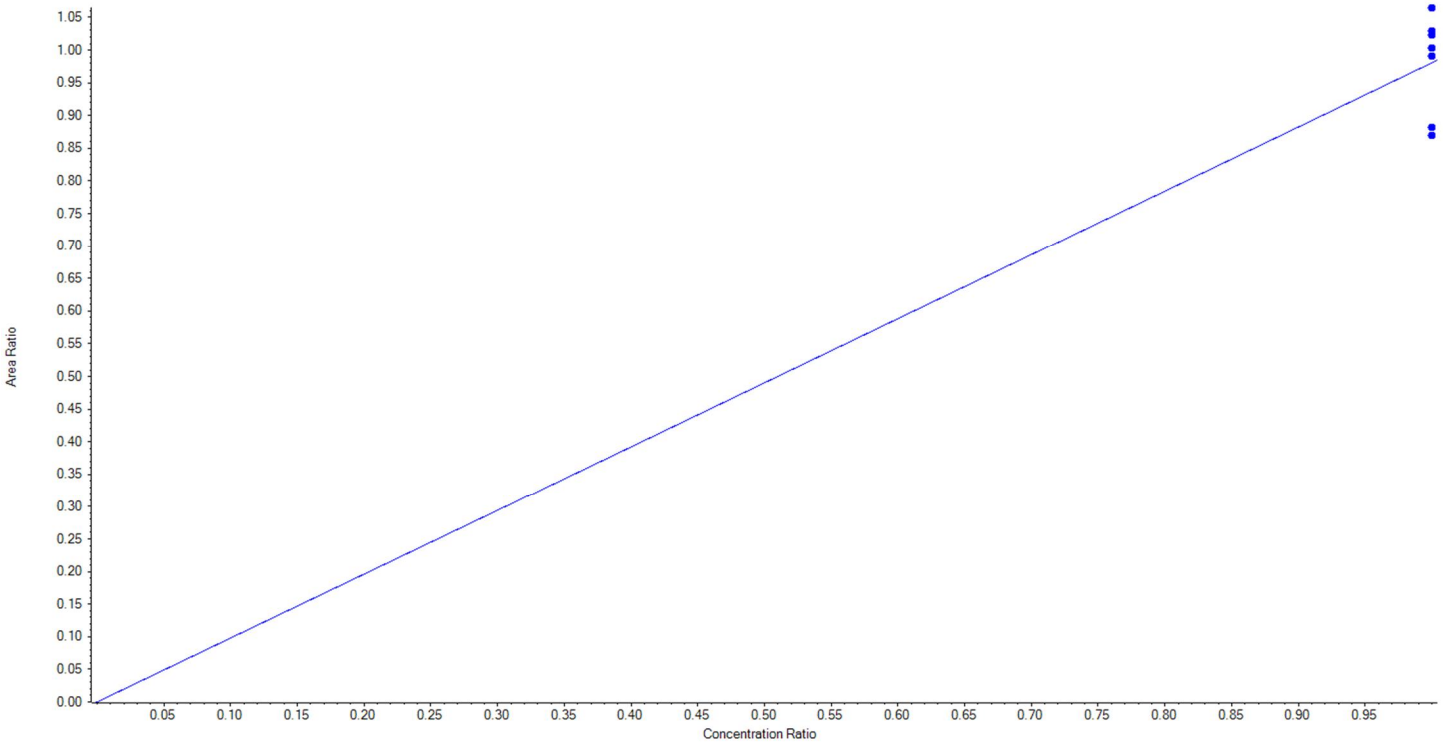
| | | | |
|---|---|---|---|
| **Analyte Name** | 13C8-PFOS | **Data File** | 18-0601.wiff |
| **MRM Transition** | 507.0 / 99.0 | **Result Table** | 18-0580A_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/8/2018 3:29:19 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.98055 x (std. dev. = 0.07487) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 239.25 | 215.345517 | 90.0 |
| 3 | KB74 | L2 | True | 239.25 | 249.684087 | 104.4 |
| 4 | KB75 | L3 | True | 239.25 | 251.144046 | 105.0 |
| 5 | KB76 | L4 | True | 239.25 | 259.730476 | 108.6 |
| 6 | KB77 | L5 | True | 239.25 | 241.812244 | 101.1 |
| 7 | KB78 | L6 | True | 239.25 | 212.331758 | 88.8 |
| 8 | KB79 | L7 | True | 239.25 | 244.701872 | 102.3 |



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Calibration Summary Report



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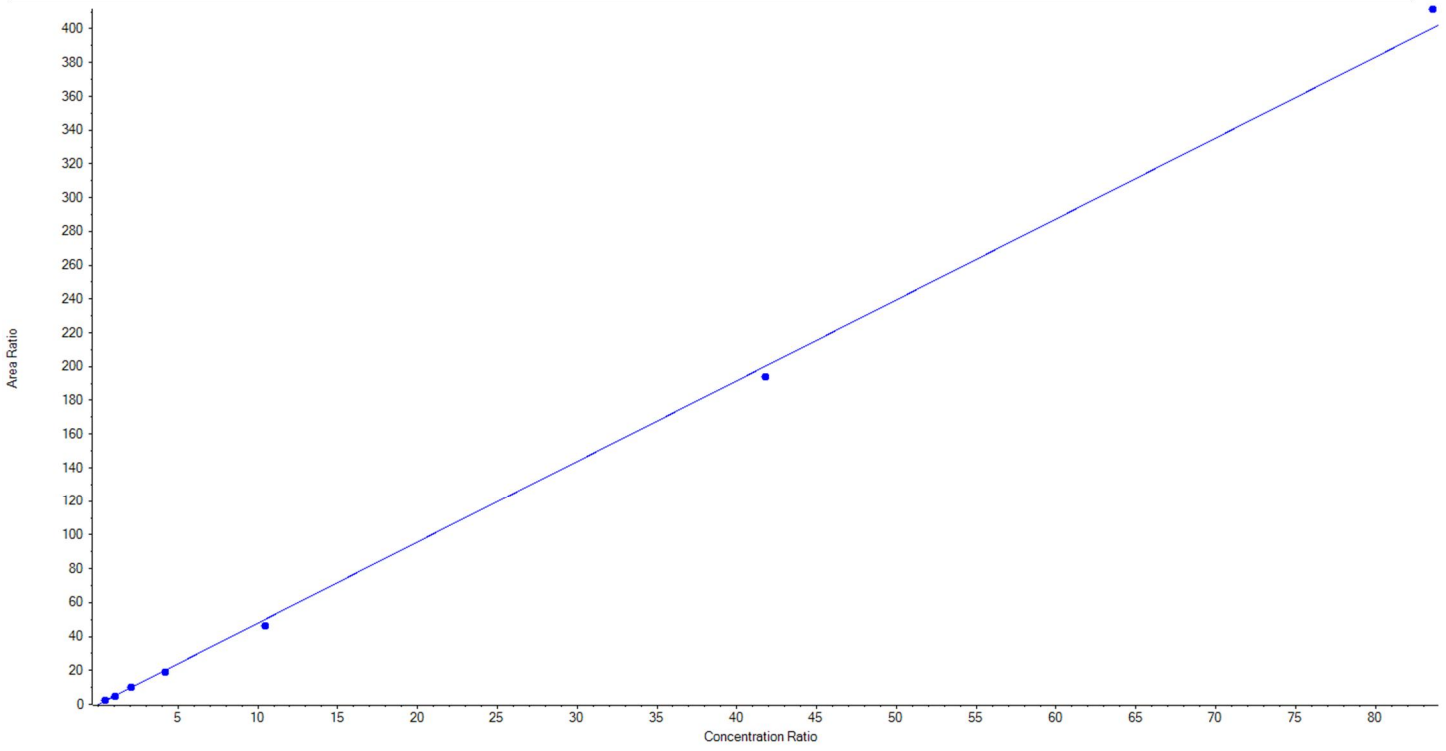
|---|---|---|---|
| **Analyte Name** | PFOS_1 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **MRM Transition** | 499.0 / 80.0 | **Result Table** | 18-0580C_BASE |
| **Internal Standard** | 13C8-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 7:36:00 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 4.79098 x + -0.03583 (r = 0.99927) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 112.998705 | 113.0 |
| 3 | KB74 | L2 | True | 250.00 | 245.807613 | 98.3 |
| 4 | KB75 | L3 | True | 500.00 | 508.954098 | 101.8 |
| 5 | KB76 | L4 | True | 1000.00 | 953.422687 | 95.3 |
| 6 | KB77 | L5 | True | 2500.00 | 2300.880982 | 92.0 |
| 7 | KB78 | L6 | True | 10000.00 | 9674.048541 | 96.7 |
| 8 | KB79 | L7 | True | 20000.00 | 20553.887374 | 102.8 |



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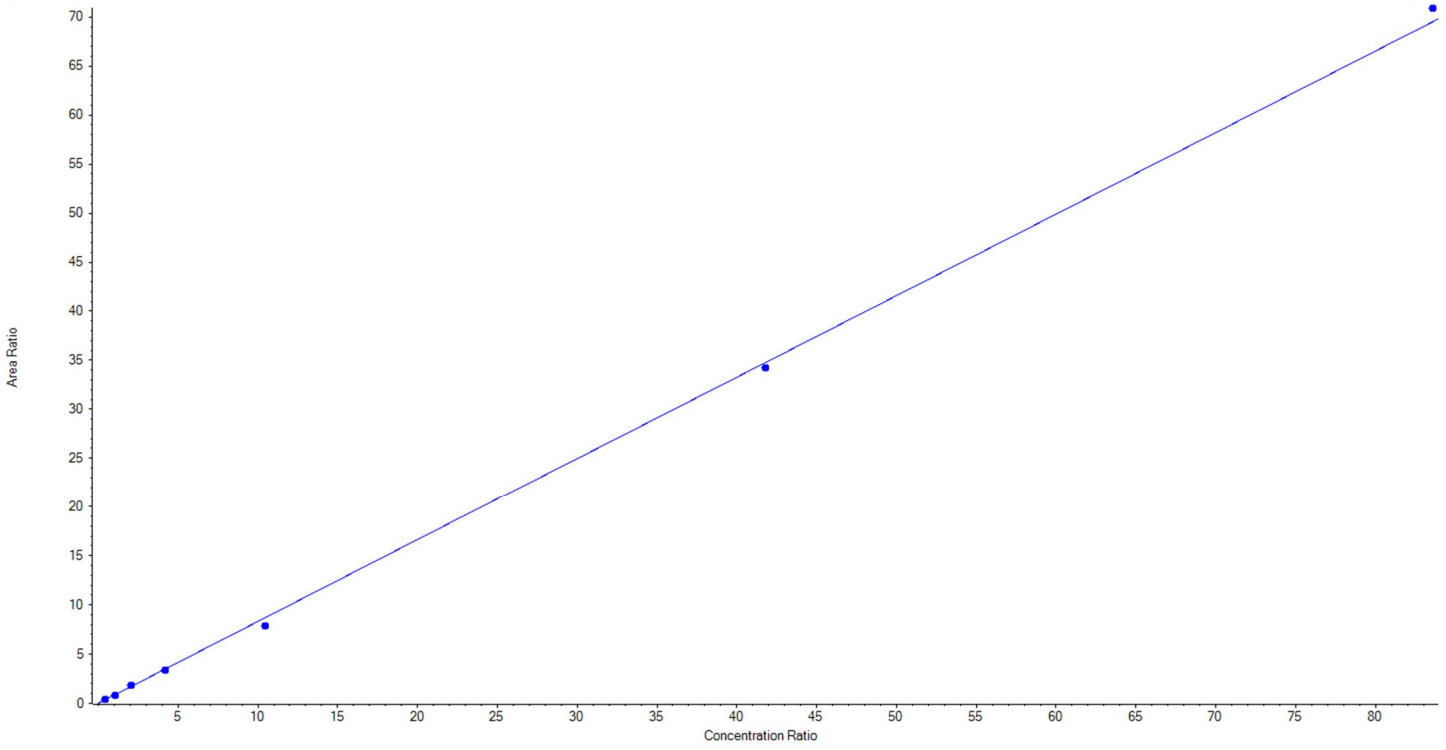
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | PFOS_2 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **MRM Transition** | 499.0 / 99.0 | **Result Table** | 18-0580C_BASE |
| **Internal Standard** | 13C8-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 7:36:00 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.83172 x + -0.00135 (r = 0.99945) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 110.962710 | 111.0 |
| 3 | KB74 | L2 | True | 250.00 | 244.538081 | 97.8 |
| 4 | KB75 | L3 | True | 500.00 | 520.238814 | 104.1 |
| 5 | KB76 | L4 | True | 1000.00 | 958.547975 | 95.9 |
| 6 | KB77 | L5 | True | 2500.00 | 2271.299000 | 90.9 |
| 7 | KB78 | L6 | True | 10000.00 | 9849.093945 | 98.5 |
| 8 | KB79 | L7 | True | 20000.00 | 20395.319474 | 102.0 |



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Calibration Summary Report

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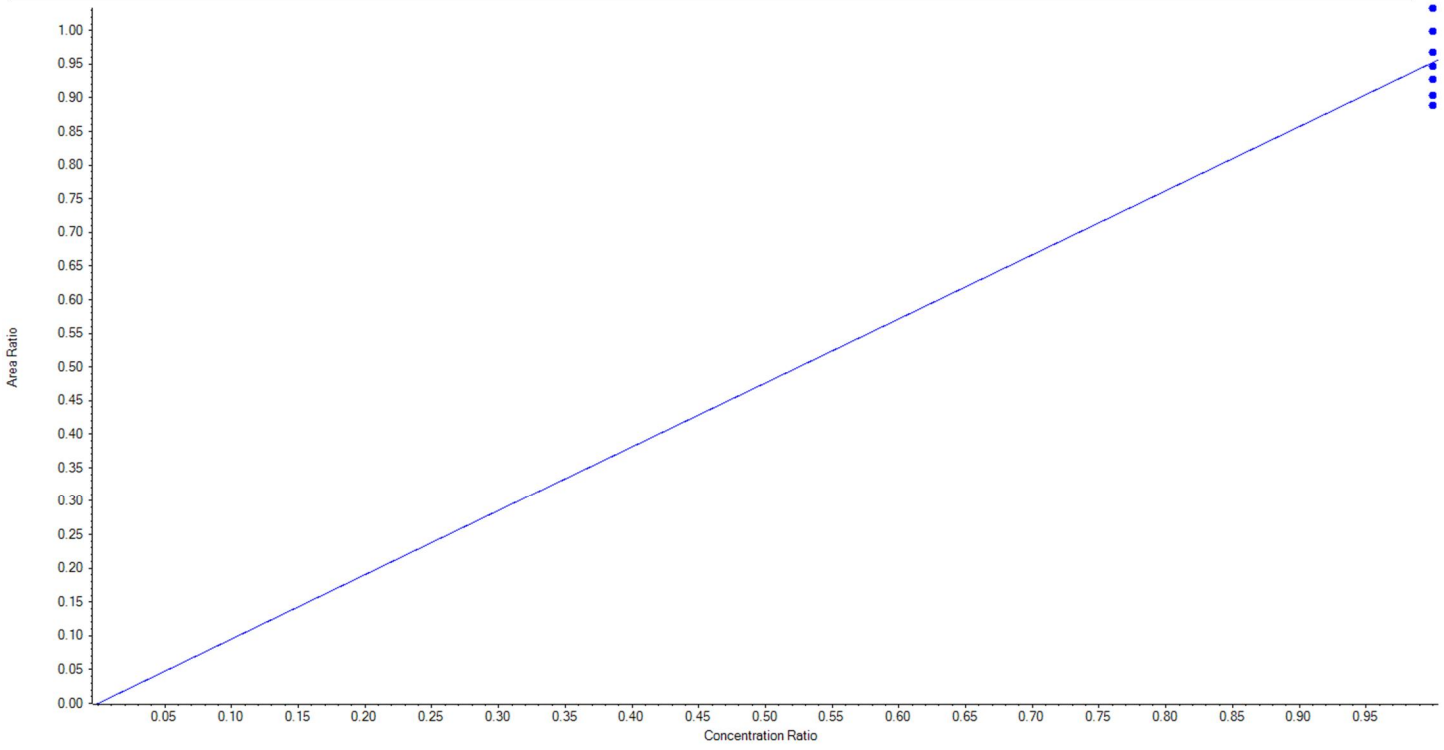
| | | | |
|---|---|---|---|
| **Analyte Name** | 13C8-PFOS | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **MRM Transition** | 507.0 / 99.0 | **Result Table** | 18-0580C_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 7:36:00 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.95250 x (std. dev. = 0.05159) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 239.25 | 250.871078 | 104.9 |
| 3 | KB74 | L2 | True | 239.25 | 243.225761 | 101.7 |
| 4 | KB75 | L3 | True | 239.25 | 223.367998 | 93.4 |
| 5 | KB76 | L4 | True | 239.25 | 233.089271 | 97.4 |
| 6 | KB77 | L5 | True | 239.25 | 226.800752 | 94.8 |
| 7 | KB78 | L6 | True | 239.25 | 259.494294 | 108.5 |
| 8 | KB79 | L7 | True | 239.25 | 237.900846 | 99.4 |



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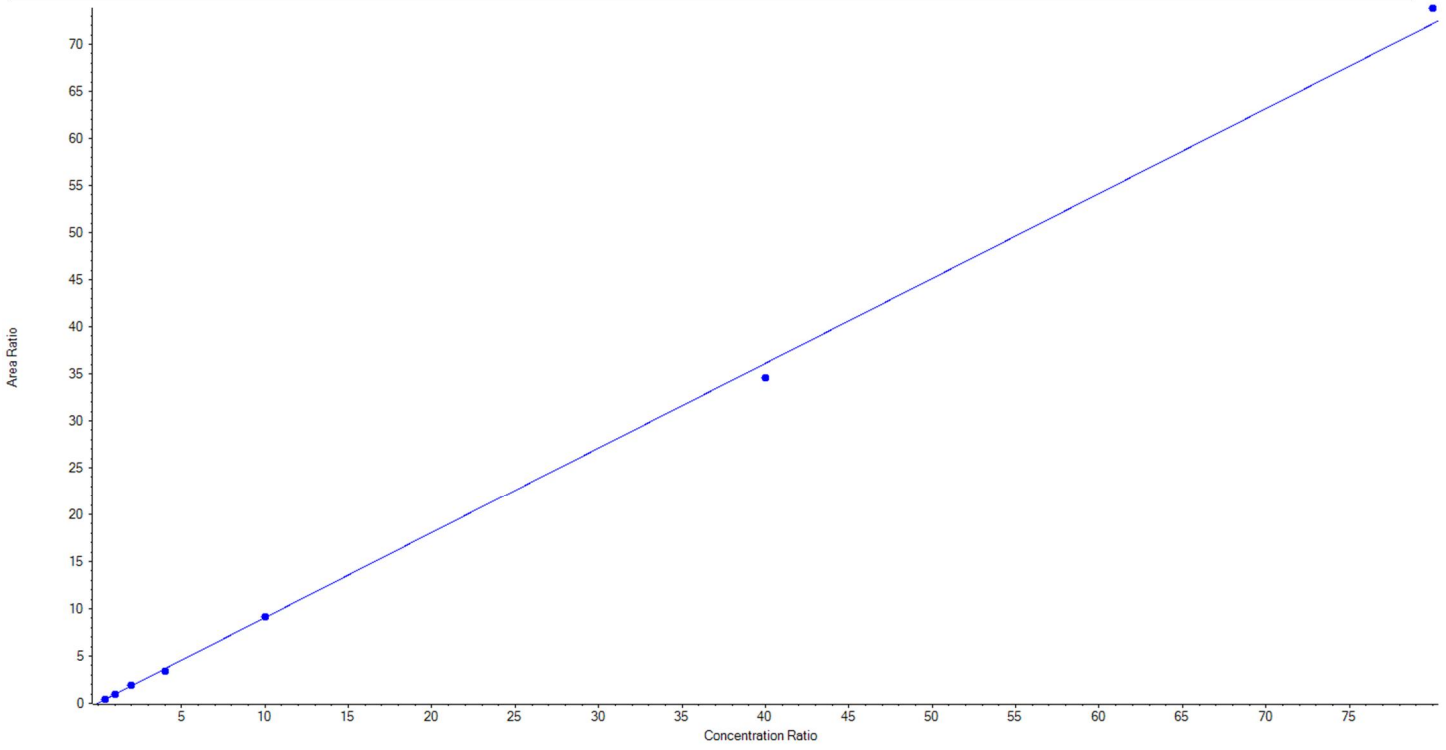
Calibration Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:07:54 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | NEtFOSAA_1 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **MRM Transition** | 584.0 / 419.0 | **Result Table** | 18-0580D_BASE |
| **Internal Standard** | d5-EtFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 7:36:00 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.90168 x + 0.04836 (r = 0.99948) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 100.00 | 104.771450 | 104.8 |
| 3 | KB74 | L2 | True | 250.00 | 251.018896 | 100.4 |
| 4 | KB75 | L3 | True | 500.00 | 508.056535 | 101.6 |
| 5 | KB76 | L4 | True | 1000.00 | 943.782521 | 94.4 |
| 6 | KB77 | L5 | True | 2500.00 | 2522.760733 | 100.9 |
| 7 | KB78 | L6 | True | 10000.00 | 9564.590700 | 95.7 |
| 8 | KB79 | L7 | True | 20000.00 | 20455.019164 | 102.3 |



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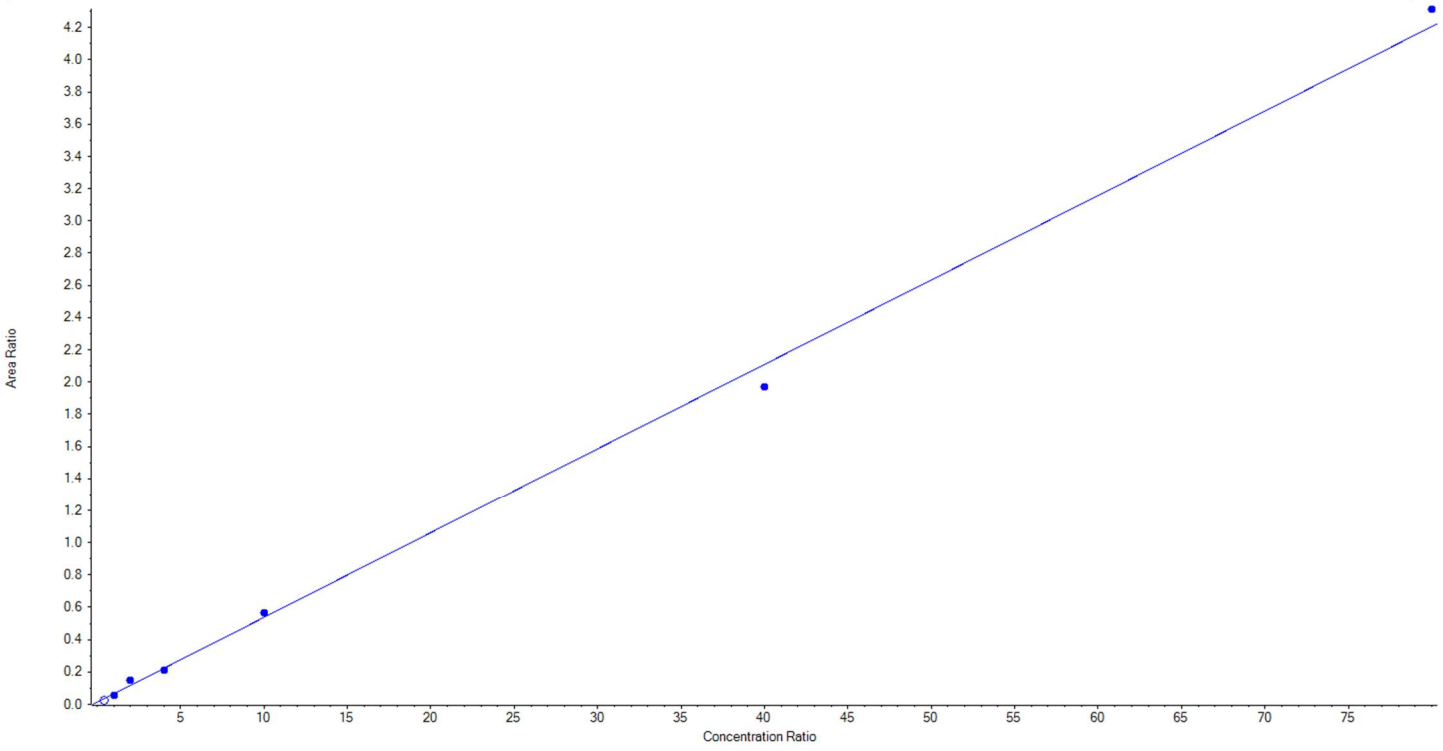
Calibration Summary Report



| | | | |
|---|---|---|---|
| **Analyte Name** | NEtFOSAA_2 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **MRM Transition** | 584.0 / 483.0 | **Result Table** | 18-0580D_BASE |
| **Internal Standard** | d5-EtFOSAA | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 7:36:00 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.05241 x + 0.01326 (r = 0.99796) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | False | 100.00 | 41.412646 | 41.4 |
| 3 | KB74 | L2 | True | 250.00 | 191.667209 | 76.7 |
| 4 | KB75 | L3 | True | 500.00 | 637.470069 | 127.5 |
| 5 | KB76 | L4 | True | 1000.00 | 945.207707 | 94.5 |
| 6 | KB77 | L5 | True | 2500.00 | 2637.389496 | 105.5 |
| 7 | KB78 | L6 | True | 10000.00 | 9326.284871 | 93.3 |
| 8 | KB79 | L7 | True | 20000.00 | 20511.980648 | 102.6 |



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Calibration Summary Report

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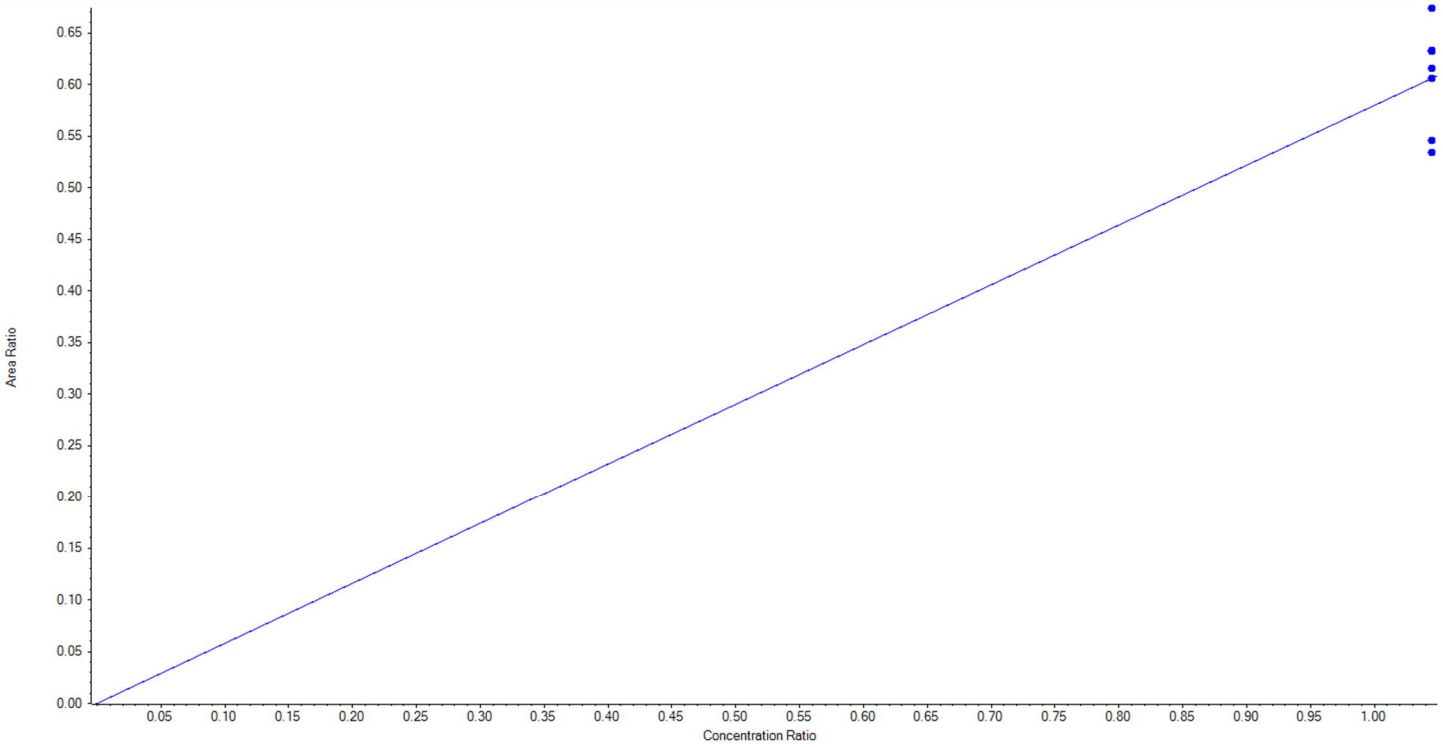
Printed: 22/10/2018 12:07:37 PM

| | | | |
|---|---|---|---|
| **Analyte Name** | d5-EtFOSAA | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **MRM Transition** | 589.0 / 419.0 | **Result Table** | 18-0580D_SIS |
| **Internal Standard** | 13C4-PFOS | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 10/17/2018 7:36:00 PM | **Acquisition Method** | 5-0369.dam |

Regression Equation: y = 0.57975 x (std. dev. = 0.04771) (weighting: 1 / x)

| Vial | Sample Name | Sample ID | Used for ICAL | Target Conc. (ng/L) | Calculated Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|---|
| 2 | KB73 | L1 | True | 250.00 | 261.116785 | 104.5 |
| 3 | KB74 | L2 | True | 250.00 | 260.842878 | 104.3 |
| 4 | KB75 | L3 | True | 250.00 | 225.192349 | 90.1 |
| 5 | KB76 | L4 | True | 250.00 | 254.251713 | 101.7 |
| 6 | KB77 | L5 | True | 250.00 | 220.425706 | 88.2 |
| 7 | KB78 | L6 | True | 250.00 | 278.106701 | 111.2 |
| 8 | KB79 | L7 | True | 250.00 | 250.063868 | 100.0 |



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| | Isotope Dilution Calibration Curve Concentrations (ng/L) | | | | | | |
|---|---|---|---|---|---|---|---|
| | KB73 | KB74 | KB75 | KB76 | KB77 | KB78 | KB79 |
| PFBA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFPeA | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| PFHxA | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| PFHpA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFOA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFNA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFDA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFUnA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFDoA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFTrDA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFTeDA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| NMeFOSAA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| NEtFOSAA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFOSA | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFBS | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| PFPeS | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFHxS (Branched) | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| PFHpS | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFOS (Branched) | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| PFDS | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| PFNS | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| 4:2FTS | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| 6:2FTS | 100.00 | 250.00 | 500.00 | 1,000.00 | 2,500.00 | 10,000.00 | 20,000.00 |
| 8:2FTS | 101.00 | 252.50 | 505.00 | 1,010.00 | 2,525.00 | 10,100.00 | 20,200.00 |
| | Surrogates / Extracted Internal Standards | | | | | | |
| 13C4-PFBA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C5-PFPeA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C5-PFHxA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C4-PFHpA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C8-PFOA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C9-PFNA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C6-PFDA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C7-PFUnA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C2-PFDoA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C2-PFTeDA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| d3-MeFOSAA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| d5-EtFOSAA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C8-FOSA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C3-PFBS | 232.25 | 232.25 | 232.25 | 232.25 | 232.25 | 232.25 | 232.25 |
| 13C3-PFHxS | 236.50 | 236.50 | 236.50 | 236.50 | 236.50 | 236.50 | 236.50 |
| 13C8-PFOS | 239.25 | 239.25 | 239.25 | 239.25 | 239.25 | 239.25 | 239.25 |
| 13C2-4:2FTS | 233.75 | 233.75 | 233.75 | 233.75 | 233.75 | 233.75 | 233.75 |
| 13C2-6:2FTS | 237.25 | 237.25 | 237.25 | 237.25 | 237.25 | 237.25 | 237.25 |
| 13C2-8:2FTS | 239.50 | 239.50 | 239.50 | 239.50 | 239.50 | 239.50 | 239.50 |
| | Internal Standards | | | | | | |
| 13C3-PFBA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C2-PFOA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C2-PFDA | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 | 250.00 |
| 13C4-PFOS | 239.25 | 239.25 | 239.25 | 239.25 | 239.25 | 239.25 | 239.25 |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:28:31 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | 33056.15 | 104.829113 | 90.9 | true |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 10083.85 | 101.098843 | 70.2 | true |
| PFHxA_1 | 313.0 / 269.0 | 1.87 | 31980.18 | 113.463123 | 6.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 2470.79 | 108.442717 | 6.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.28 | 30159.55 | 101.506515 | 23.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 843.53 | 77.666828 | 20.6 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.30 | 42674.77 | 96.189067 | 95.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.30 | 15508.36 | 95.061118 | 136.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.69 | 40895.50 | 111.759164 | 55.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.69 | 1388.86 | 82.127204 | 31.2 | false |
| PFNA_1 | 463.0 / 419.0 | 3.09 | 40842.97 | 100.227006 | 87.8 | false |
| PFNA_2 | 463.0 / 219.0 | 3.09 | 13479.67 | 104.997783 | 86.0 | false |
| PFOS_1 | 499.0 / 80.0 | 3.08 | 63276.33 | 120.082299 | 90.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.08 | 11025.34 | 106.677378 | 101.6 | true |
| PFDA_1 | 513.0 / 469.0 | 3.44 | 49339.44 | 94.465377 | 110.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.44 | 2291.44 | 93.373756 | 81.4 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.76 | 41729.38 | 113.530574 | 120.5 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | 2526.43 | 86.699412 | 47.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.05 | 38825.28 | 90.342589 | 174.8 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.05 | 6338.77 | 84.135088 | 128.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | 34872.27 | 86.217436 | 250.3 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.29 | 2476.00 | 83.582619 | 104.2 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | 38557.79 | 78.484390 | 596.9 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.51 | 2126.16 | 88.518156 | 198.5 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | 8295.07 | 107.102441 | 356.7 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | 4118.53 | 89.030106 | 111.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.76 | 7477.34 | 75.985282 | 166.4 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.75 | 554.18 | 127.372344 | 49.4 | true |

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Summary Quant Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:39:24 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 87913.78 | 252.524146 | 204.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 26544.30 | 248.521801 | 169.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 79029.18 | 258.220575 | 12.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 6331.05 | 267.909760 | 12.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 68372.02 | 267.303609 | 42.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 1730.59 | 268.737630 | 38.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 101428.38 | 261.547957 | 139.7 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 30246.47 | 248.171296 | 171.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 96187.79 | 235.445902 | 103.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 6413.92 | 266.393231 | 97.0 | false |
| PFNA_1 | 463.0 / 419.0 | 3.08 | 101498.54 | 246.592068 | 151.0 | false |
| PFNA_2 | 463.0 / 219.0 | 3.08 | 29734.45 | 229.807247 | 126.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.08 | 150536.32 | 247.410484 | 148.1 | true |
| PFOS_2 | 499.0 / 99.0 | 3.08 | 28939.51 | 260.257113 | 181.6 | false |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 125557.59 | 258.637410 | 205.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.44 | 6642.21 | 316.073307 | 149.5 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 113733.91 | 254.973875 | 157.1 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | 6848.80 | 258.188695 | 108.8 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.04 | 101695.75 | 256.785352 | 227.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.04 | 17517.03 | 273.395698 | 231.3 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.29 | 90484.61 | 251.481551 | 343.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 6066.15 | 249.323271 | 184.8 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | 103200.53 | 259.078255 | 871.7 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | 4916.48 | 246.670742 | 299.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.59 | 19391.63 | 268.430538 | 371.5 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | 11605.15 | 292.103693 | 304.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.75 | 19400.29 | 271.680459 | 302.0 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.75 | 1385.75 | 291.445838 | 140.9 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:09:31 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:50:18 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 140055.04 | 532.929180 | 401.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 44526.63 | 558.854840 | 232.0 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 110956.53 | 482.572019 | 17.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 8493.02 | 484.438769 | 15.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 107951.70 | 464.409874 | 60.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 3266.15 | 634.179378 | 55.7 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 151884.64 | 466.566995 | 151.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 48867.31 | 508.104811 | 227.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 163144.44 | 495.870315 | 145.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 10890.88 | 539.896756 | 140.5 | false |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 149081.86 | 487.375797 | 183.2 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 43905.36 | 462.293325 | 216.0 | false |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 233548.30 | 423.663833 | 130.5 | false |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 41989.70 | 426.246241 | 410.2 | false |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 180089.23 | 480.252122 | 263.8 | false |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 7312.71 | 441.476666 | 116.3 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 176109.96 | 488.394243 | 213.8 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 10813.81 | 553.872032 | 123.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 150770.49 | 479.356212 | 254.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 25207.06 | 501.715915 | 228.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 142240.93 | 490.399853 | 405.7 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 9632.06 | 504.846755 | 239.8 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | 156917.69 | 496.407600 | 1009.4 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | 7591.55 | 487.185882 | 418.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | 29219.05 | 457.235760 | 458.9 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | 18405.44 | 528.156016 | 258.9 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 30489.38 | 566.738067 | 322.5 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | 2002.80 | 502.560351 | 376.1 | false |

BATTELLE

Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:01:11 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 347925.60 | 1018.441783 | 502.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 102891.20 | 997.617783 | 477.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 266688.36 | 945.287318 | 33.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 20318.35 | 952.719147 | 28.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 257449.98 | 1044.768290 | 96.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 5180.67 | 967.461735 | 95.6 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 407122.71 | 1058.906196 | 250.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 112230.37 | 1016.816934 | 361.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 385264.33 | 949.074725 | 308.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 25910.08 | 1022.757278 | 270.1 | false |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 357975.45 | 1017.588183 | 320.1 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 119530.87 | 1104.919284 | 310.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 577748.74 | 980.350327 | 266.5 | false |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 110977.83 | 1074.875753 | 453.1 | false |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 441978.61 | 1027.481247 | 404.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 18184.27 | 973.966207 | 292.2 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 427480.52 | 934.962840 | 316.2 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 25391.47 | 1070.604869 | 255.1 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 395389.98 | 1057.540689 | 339.8 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 60747.17 | 1024.927024 | 298.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 352237.26 | 1096.565614 | 585.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 22784.78 | 1092.284116 | 393.1 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | 379900.88 | 1097.542293 | 1008.1 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | 18147.24 | 1070.483566 | 567.1 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | 73139.46 | 904.915086 | 590.0 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | 38123.79 | 860.552854 | 488.2 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 71768.12 | 963.645894 | 391.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | 5141.87 | 887.808331 | 373.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:12:02 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 695118.76 | 2333.088531 | 994.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 211570.89 | 2359.480451 | 754.7 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 528465.63 | 2419.069151 | 55.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 39346.55 | 2395.486932 | 53.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 504730.59 | 2318.952299 | 128.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 10202.56 | 2244.844631 | 120.7 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 790333.54 | 2725.211879 | 339.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 229335.26 | 2811.160039 | 440.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 768335.68 | 2522.264999 | 443.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 48709.83 | 2533.071951 | 350.1 | false |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 732559.70 | 2478.629081 | 443.8 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 223779.97 | 2463.114082 | 578.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 1241769.16 | 2546.471683 | 388.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 213603.04 | 2520.844326 | 644.0 | false |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 860836.94 | 2604.576161 | 579.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 33849.74 | 2377.530036 | 386.5 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 863761.75 | 2298.661218 | 393.7 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 44136.72 | 2323.690587 | 240.8 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 801958.18 | 2575.295281 | 571.1 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 122380.01 | 2494.864323 | 480.8 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 683190.95 | 2576.561926 | 898.2 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 44825.42 | 2624.387430 | 443.9 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 745276.20 | 2624.813810 | 1471.0 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | 36715.29 | 2651.593899 | 1002.9 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | 140601.20 | 2582.117385 | 781.9 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | 75779.91 | 2554.678504 | 457.0 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 148589.95 | 2697.027612 | 696.9 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | 8473.25 | 1898.363476 | 615.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:22:53 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 3416391.16 | 9429.847331 | 1745.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 1054546.50 | 9688.168095 | 1455.7 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 2578900.91 | 10013.661360 | 113.5 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 196911.98 | 10198.343892 | 116.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 2371766.59 | 10137.969780 | 332.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 48326.46 | 10135.347293 | 245.2 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 3557665.99 | 9510.773371 | 622.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 978130.87 | 9370.075513 | 735.1 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 3442692.10 | 9782.483021 | 740.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 224409.77 | 10041.755775 | 662.5 | false |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 3500192.87 | 10531.817377 | 1046.1 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 1054458.51 | 10335.963960 | 1045.6 | false |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 5576789.22 | 9233.346899 | 607.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 958314.80 | 9168.736855 | 1142.7 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 3957255.84 | 9935.024946 | 946.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 166161.14 | 9733.173197 | 620.4 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 4094668.49 | 10012.181585 | 646.3 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 199104.99 | 9791.574303 | 674.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 3627797.88 | 10570.549715 | 698.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 581987.06 | 10804.272984 | 625.9 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 3339008.77 | 10629.413240 | 1201.1 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 211759.51 | 10507.386672 | 802.3 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 3680379.00 | 10977.527679 | 1846.3 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | 173836.48 | 10647.303955 | 1397.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | 691295.65 | 10030.198790 | 1203.5 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | 375677.06 | 10025.478827 | 1095.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 658877.27 | 9774.922686 | 739.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | 41902.05 | 7521.926049 | 1223.1 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:33:45 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 7096503.14 | 21021.839916 | 2393.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2102856.81 | 20739.758186 | 2133.4 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 4790596.07 | 20461.226455 | 175.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 355942.44 | 20286.158782 | 162.7 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 4362577.39 | 20015.089633 | 430.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 88637.94 | 20021.762504 | 317.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 6441425.63 | 20574.304535 | 1030.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1800216.62 | 20644.110289 | 1645.7 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 6165314.52 | 20253.101875 | 1390.0 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 384354.07 | 19863.997806 | 1137.8 | false |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 5699345.61 | 19487.770488 | 1293.7 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 1763508.38 | 19648.904319 | 1136.7 | false |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 9860234.49 | 20798.674476 | 754.8 | false |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 1704317.29 | 20792.362334 | 1239.7 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 6548555.80 | 19949.562737 | 1191.6 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 286987.82 | 20414.406831 | 781.8 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 7315881.04 | 20247.295664 | 823.3 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 363115.93 | 20265.370102 | 567.5 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 6650093.78 | 19320.130163 | 1052.0 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 1035073.48 | 19166.688967 | 750.9 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 6003335.70 | 19219.360380 | 1185.5 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 386262.58 | 19288.189136 | 911.1 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 6270764.38 | 18816.145973 | 1990.1 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 310799.58 | 19158.243800 | 1524.4 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 1227731.17 | 14845.399298 | 1125.7 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 636669.73 | 14160.840325 | 862.8 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 1118975.78 | 29071.092449 | 957.1 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 73904.68 | 23120.523610 | 659.6 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:28:31 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.04 | 95464.43 | 257.026376 | 1018.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.59 | 14438.13 | 203.857036 | 220.6 | true |
| d5-EtFOSAA | 589.0 / 419.0 | 3.75 | 18291.05 | 241.169310 | 220.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 61875.10 | 240.445389 | 629.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.27 | 70196.92 | 245.085528 | 596.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.68 | 91105.89 | 250.591660 | 1399.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.07 | 90902.82 | 237.955901 | 946.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.43 | 96366.68 | 253.901169 | 670.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.75 | 87785.45 | 245.626378 | 948.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.51 | 75964.33 | 251.649732 | 1410.1 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.53 | 25326.47 | 204.223666 | 771.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.29 | 28201.29 | 249.628750 | 477.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.07 | 25154.16 | 217.092004 | 250.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:39:24 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.03 | 100628.96 | 237.007702 | 1148.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.58 | 15630.81 | 219.329919 | 154.1 | true |
| d5-EtFOSAA | 589.0 / 419.0 | 3.74 | 18204.61 | 238.542839 | 216.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 70054.12 | 257.221888 | 793.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 68080.35 | 224.592408 | 608.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 99019.82 | 257.345152 | 1503.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 103442.30 | 255.853298 | 1190.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.42 | 108908.81 | 251.017617 | 2405.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.74 | 102483.38 | 250.847231 | 662.8 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.50 | 81534.41 | 236.282254 | 2714.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 27972.97 | 224.167026 | 718.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 26770.18 | 235.493353 | 705.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 28454.41 | 244.053641 | 264.0 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:50:18 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 82925.11 | 250.257512 | 1000.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 14130.15 | 245.027875 | 208.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.74 | 14995.10 | 242.821176 | 209.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 53460.60 | 235.113887 | 608.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 63973.57 | 252.780831 | 555.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 78753.82 | 245.152136 | 46524.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 80313.82 | 237.932254 | 1075.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 89242.42 | 263.556741 | 1107.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 81655.21 | 256.095167 | 588.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.49 | 69369.27 | 257.584012 | 1520.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.53 | 21119.38 | 209.154156 | 579.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 22120.79 | 240.480662 | 323.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 25217.36 | 267.292979 | 240.9 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:01:11 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 100968.53 | 243.725423 | 1049.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.58 | 18541.23 | 282.973318 | 177.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.74 | 21380.74 | 304.718233 | 227.6 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 66185.88 | 260.460366 | 604.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 69601.25 | 246.089124 | 610.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 96650.51 | 269.215522 | 1344.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 94625.21 | 250.842865 | 925.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 106393.83 | 251.323403 | 954.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 102765.50 | 257.797381 | 742.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.49 | 79382.67 | 235.771436 | 1341.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 27455.61 | 239.306577 | 588.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 26289.36 | 251.534731 | 464.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 26697.92 | 249.059783 | 227.0 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:12:02 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 85108.05 | 257.160313 | 785.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 12865.65 | 224.069858 | 113.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 15776.80 | 256.589600 | 174.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 51544.02 | 262.706500 | 755.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 62195.95 | 284.809006 | 792.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 72265.13 | 260.699943 | 3709.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 80566.06 | 276.607067 | 797.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 83490.31 | 246.871563 | 763.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 84052.70 | 263.937646 | 473.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 66558.34 | 247.449420 | 1807.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.53 | 23945.64 | 238.174228 | 521.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 19694.99 | 215.039496 | 331.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 21873.01 | 232.851709 | 208.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:22:53 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 94395.46 | 244.514733 | 633.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 16598.05 | 250.413797 | 108.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 20187.13 | 284.409798 | 227.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 60934.81 | 255.982162 | 536.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 67350.29 | 254.204284 | 618.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 83351.46 | 247.843263 | 1113.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 91248.85 | 258.220226 | 39800.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 101660.43 | 257.695950 | 1907.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 91247.59 | 245.635835 | 679.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.49 | 79553.55 | 253.550328 | 1223.7 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 29118.71 | 250.893858 | 519.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 25470.53 | 240.907424 | 347.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 26703.84 | 246.260211 | 201.7 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:33:45 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 94760.50 | 260.307941 | 1070.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 19341.76 | 324.328198 | 134.5 | true |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 11606.86 | 181.749043 | 144.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 55421.63 | 238.069808 | 461.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 62817.12 | 242.438820 | 418.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 72077.78 | 219.152324 | 951.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 80379.34 | 232.588389 | 680.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 83934.77 | 225.633557 | 921.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 80587.06 | 230.060363 | 732.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 79206.06 | 267.712819 | 1392.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 27132.18 | 259.830489 | 521.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 21157.56 | 222.415584 | 350.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 21282.70 | 218.139674 | 228.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:40:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.57 | 40668.17 | 99.953426 | 147.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.57 | 13084.98 | 99.537833 | 143.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.90 | 40708.11 | 92.447260 | 20.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.90 | 2578.15 | 99.213282 | 14.9 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.32 | 36189.71 | 89.873661 | 56.8 | false |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | 2.34 | 44435.47 | 100.517086 | 150.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.34 | 12734.39 | 95.954083 | 127.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.73 | 46314.88 | 101.180654 | 75.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.73 | 4177.08 | 123.895310 | 83.4 | true |
| PFNA_1 | 463.0 / 419.0 | 3.14 | 50710.36 | 111.732664 | 115.9 | false |
| PFNA_2 | 463.0 / 219.0 | 3.13 | 16248.01 | 124.667356 | 138.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.14 | 65961.98 | 123.573097 | 71.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.13 | 9677.50 | 106.379713 | 150.4 | false |
| PFDA_1 | 513.0 / 469.0 | 3.50 | 56677.45 | 91.723499 | 128.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.50 | 2858.19 | 99.266945 | 53.8 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.83 | 49946.70 | 116.714826 | 129.6 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.83 | 3273.00 | 112.803868 | 53.8 | true |
| PFDoA_1 | 613.0 / 569.0 | 4.12 | 48332.16 | 87.034754 | 207.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.12 | 8192.67 | 89.771190 | 136.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.37 | 39977.81 | 89.252137 | 267.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.37 | 3025.44 | 91.358244 | 134.0 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.59 | 48383.63 | 81.664418 | 542.3 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.59 | 2519.85 | 85.351718 | 234.0 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.66 | 8441.75 | 97.702606 | 292.9 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.65 | 3931.68 | 88.881031 | 112.5 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | 6727.50 | 111.213907 | 204.9 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.82 | 515.03 | 113.055246 | 37.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:51:02 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 97996.21 | 235.867817 | 288.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 30342.08 | 237.336670 | 285.2 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | 92276.60 | 287.493278 | 36.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.89 | 5694.80 | 256.972963 | 30.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.31 | 90146.68 | 297.117006 | 116.2 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 1692.78 | 239.925260 | 51.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.33 | 108182.30 | 266.028024 | 169.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.33 | 31239.67 | 267.441050 | 214.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.73 | 111798.84 | 271.138088 | 144.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.72 | 7229.09 | 243.598034 | 92.7 | false |
| PFNA_1 | 463.0 / 419.0 | 3.13 | 112088.23 | 265.554817 | 182.8 | false |
| PFNA_2 | 463.0 / 219.0 | 3.13 | 30549.71 | 238.006617 | 190.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.12 | 137244.09 | 231.385263 | 102.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 25802.49 | 253.914073 | 281.2 | false |
| PFDA_1 | 513.0 / 469.0 | 3.49 | 133394.41 | 283.577861 | 235.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.49 | 5884.08 | 274.959074 | 89.4 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.82 | 115591.07 | 257.976381 | 169.9 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.82 | 6763.47 | 261.313717 | 102.8 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.11 | 116544.25 | 263.602074 | 253.9 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.10 | 18423.85 | 258.318969 | 187.8 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.36 | 96393.82 | 249.241065 | 391.9 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.36 | 6271.21 | 234.431195 | 186.7 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.58 | 117526.52 | 253.892322 | 745.6 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.58 | 5838.46 | 256.536093 | 412.9 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.65 | 17494.23 | 270.300837 | 399.5 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.65 | 10257.55 | 298.534462 | 179.0 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | 18232.38 | 243.571968 | 926.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | 985.11 | 192.274109 | 81.6 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:01:53 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 171907.26 | 467.701721 | 301.1 | false |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 51879.22 | 467.679320 | 332.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | 143175.15 | 488.979798 | 50.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.89 | 10476.06 | 506.830897 | 42.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | 136165.60 | 476.968535 | 137.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 3203.78 | 532.066103 | 116.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.33 | 182161.08 | 454.394152 | 182.7 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.33 | 51732.75 | 453.657269 | 286.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.72 | 178307.00 | 487.237867 | 191.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.72 | 11301.33 | 454.441982 | 138.8 | false |
| PFNA_1 | 463.0 / 419.0 | 3.12 | 168981.24 | 464.587264 | 221.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.12 | 49042.28 | 445.274904 | 292.9 | false |
| PFOS_1 | 499.0 / 80.0 | 3.12 | 263724.73 | 490.927213 | 152.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 46469.02 | 499.305152 | 389.4 | false |
| PFDA_1 | 513.0 / 469.0 | 3.48 | 202554.80 | 458.611120 | 261.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.48 | 9291.81 | 475.811514 | 206.2 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.81 | 194658.75 | 486.390999 | 202.1 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.81 | 11024.85 | 510.984846 | 135.6 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.10 | 185364.70 | 494.809950 | 304.3 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.10 | 29281.72 | 490.819808 | 248.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.35 | 161653.00 | 498.194197 | 489.0 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.35 | 11309.19 | 526.023755 | 288.0 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.57 | 191505.25 | 504.637939 | 928.4 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.57 | 9174.84 | 494.590376 | 439.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.64 | 30888.76 | 474.866395 | 350.3 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.64 | 16836.11 | 476.944765 | 344.8 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | 32032.95 | 459.435665 | 453.1 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.81 | 2351.88 | 523.159531 | 104.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:12:44 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 392417.32 | 993.462503 | 465.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 114842.33 | 974.004845 | 429.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 281812.65 | 983.021914 | 74.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 21929.54 | 1054.871534 | 64.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | 279387.48 | 980.539024 | 187.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 6285.62 | 1074.132757 | 167.0 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 415537.83 | 1088.436384 | 274.9 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 119381.60 | 1109.381232 | 500.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.72 | 387779.81 | 935.786687 | 266.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 25120.59 | 926.390958 | 236.2 | false |
| PFNA_1 | 463.0 / 419.0 | 3.12 | 362146.83 | 981.108634 | 347.5 | false |
| PFNA_2 | 463.0 / 219.0 | 3.12 | 113257.38 | 1012.445509 | 383.5 | false |
| PFOS_1 | 499.0 / 80.0 | 3.12 | 577124.73 | 904.657366 | 225.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 104306.14 | 940.173706 | 535.1 | false |
| PFDA_1 | 513.0 / 469.0 | 3.48 | 439108.27 | 1003.320169 | 444.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.48 | 19088.80 | 998.656796 | 233.0 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.81 | 397197.56 | 903.715490 | 282.0 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.81 | 21879.16 | 956.967861 | 207.3 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.09 | 425373.61 | 1051.603118 | 366.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.09 | 66825.71 | 1045.219534 | 379.7 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.35 | 347190.32 | 1027.562136 | 544.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.34 | 21976.91 | 992.847328 | 342.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.57 | 412325.02 | 1058.184635 | 1187.6 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.57 | 19886.40 | 1051.091061 | 629.0 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | 69641.09 | 1084.703812 | 668.8 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | 35807.08 | 1013.211747 | 532.9 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | 68087.88 | 949.960545 | 438.5 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | 4957.69 | 1098.825316 | 311.4 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:23:36 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 756343.61 | 2947.537177 | 722.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 229596.11 | 3021.038298 | 484.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | 572181.89 | 2463.536173 | 131.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 40903.69 | 2382.338955 | 107.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | 533838.60 | 2380.403957 | 257.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 9815.51 | 2156.057878 | 259.7 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 788727.82 | 2372.812761 | 437.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 226527.85 | 2425.801995 | 875.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.71 | 757753.26 | 2409.578897 | 384.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 46543.22 | 2309.165462 | 385.4 | false |
| PFNA_1 | 463.0 / 419.0 | 3.12 | 694412.93 | 2339.025833 | 473.2 | false |
| PFNA_2 | 463.0 / 219.0 | 3.12 | 204941.92 | 2267.641827 | 579.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.11 | 1089935.72 | 2369.050851 | 313.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 195598.56 | 2437.291957 | 610.4 | false |
| PFDA_1 | 513.0 / 469.0 | 3.47 | 834944.35 | 2495.696626 | 635.8 | false |
| PFDA_2 | 513.0 / 219.0 | 3.47 | 33509.30 | 2311.427685 | 379.1 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.80 | 778458.14 | 2353.654032 | 384.6 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.80 | 36059.02 | 2144.779953 | 259.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.09 | 784595.24 | 2534.867851 | 580.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.09 | 125267.75 | 2572.032131 | 438.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.34 | 684475.10 | 2693.991009 | 702.5 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.34 | 44906.01 | 2730.161506 | 447.7 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.56 | 789907.61 | 2716.333041 | 1269.0 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.56 | 38004.64 | 2700.584305 | 780.9 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | 128326.96 | 2361.513725 | 950.3 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | 73652.55 | 2451.833697 | 536.3 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | 133266.13 | 2415.081451 | 712.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | 7641.53 | 2227.146413 | 205.4 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:34:28 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 3309537.55 | 10433.295836 | 1365.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 961276.85 | 10256.020604 | 971.4 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 2290886.18 | 10605.144570 | 280.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 163941.16 | 10176.855980 | 204.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 2292450.94 | 10398.055976 | 612.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 46477.71 | 10544.398899 | 508.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 3129906.71 | 10676.033528 | 930.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 882021.93 | 10732.303596 | 1438.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.71 | 2913238.82 | 10445.864678 | 1096.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 181245.05 | 10261.764977 | 647.3 | false |
| PFNA_1 | 463.0 / 419.0 | 3.11 | 2720387.13 | 9303.221102 | 966.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.11 | 852122.98 | 9562.994751 | 1180.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.11 | 4455199.63 | 9861.510766 | 665.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 791057.49 | 10023.980246 | 1044.1 | false |
| PFDA_1 | 513.0 / 469.0 | 3.47 | 3198907.75 | 10575.579483 | 975.2 | false |
| PFDA_2 | 513.0 / 219.0 | 3.47 | 136125.45 | 10462.989195 | 788.2 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.80 | 3109989.08 | 9428.194009 | 562.4 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.80 | 155760.48 | 9433.988662 | 492.3 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | 3204233.06 | 10483.397789 | 786.3 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.08 | 497945.51 | 10372.966024 | 650.8 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.33 | 2747027.59 | 10387.589354 | 1150.5 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | 178230.86 | 10459.488900 | 774.7 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | 3177876.84 | 10540.568356 | 1582.6 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | 149100.21 | 10234.811734 | 1651.1 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | 513232.73 | 9193.657335 | 1376.7 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | 290086.69 | 9363.747452 | 1330.8 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | 517713.39 | 11403.435561 | 895.5 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | 31066.33 | 11091.423822 | 930.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:45:19 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 7690612.17 | 19515.681521 | 2487.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 2285398.39 | 19637.882430 | 2030.9 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 5078652.41 | 19772.877006 | 407.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 387675.85 | 20216.416389 | 295.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 4908679.61 | 19727.041841 | 663.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 97863.45 | 19703.419103 | 503.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 6831890.68 | 19735.278066 | 908.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 1902351.60 | 19608.960774 | 1148.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.71 | 6171753.73 | 19699.213129 | 1411.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 396748.07 | 20030.743277 | 954.8 | false |
| PFNA_1 | 463.0 / 419.0 | 3.11 | 5939423.06 | 20884.769686 | 1255.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.11 | 1794567.23 | 20698.969036 | 1791.3 | false |
| PFOS_1 | 499.0 / 80.0 | 3.11 | 9852630.87 | 20368.895445 | 742.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 1697806.01 | 20088.955153 | 1044.1 | false |
| PFDA_1 | 513.0 / 469.0 | 3.47 | 6562338.44 | 19441.491242 | 995.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.47 | 286146.26 | 19726.888792 | 653.9 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | 6493292.23 | 20803.354263 | 810.7 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | 326164.90 | 20929.161092 | 742.7 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | 6617095.38 | 19434.684463 | 842.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.08 | 1043464.33 | 19520.872343 | 761.9 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.33 | 6091889.04 | 19404.170102 | 1200.2 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | 390446.23 | 19315.689073 | 925.3 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | 6866121.41 | 19194.719288 | 1825.6 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | 337374.63 | 19527.034713 | 1538.9 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.62 | 1170736.88 | 20867.255290 | 1682.0 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.62 | 643631.01 | 20656.846846 | 1056.0 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | 1066986.38 | 18767.300903 | 958.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | 66953.76 | 19104.115563 | 704.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:40:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.11 | 102013.15 | 258.500708 | 1713.1 | true |
| d3-MeFOSAA | 573.0 / 419.0 | 3.65 | 16095.60 | 265.038957 | 211.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.81 | 16463.25 | 250.047206 | 179.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.89 | 69346.03 | 252.344194 | 714.9 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.30 | 81490.43 | 261.654960 | 1166.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.72 | 88667.45 | 239.840388 | 1034.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.12 | 95060.67 | 240.220252 | 1731.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.49 | 102747.84 | 257.474350 | 929.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.81 | 96456.00 | 259.403586 | 1628.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.59 | 91146.52 | 274.071997 | 2801.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.55 | 28430.62 | 218.998363 | 480.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.33 | 25974.65 | 242.607727 | 332.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.12 | 26642.75 | 215.345517 | 284.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:51:02 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.09 | 105895.90 | 255.170058 | 816.1 | true |
| d3-MeFOSAA | 573.0 / 419.0 | 3.64 | 13900.17 | 229.387671 | 167.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 18818.40 | 286.441908 | 190.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.88 | 68053.92 | 244.342821 | 612.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.30 | 77180.54 | 244.514684 | 488.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.71 | 94578.42 | 252.420669 | 8620.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.11 | 105077.59 | 261.995376 | 1974.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.48 | 104286.39 | 248.504308 | 1081.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.80 | 104057.87 | 266.113351 | 871.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.57 | 91200.68 | 260.776024 | 2411.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.55 | 31592.73 | 243.887307 | 654.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.32 | 25366.03 | 237.440480 | 295.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.11 | 30823.83 | 249.684087 | 228.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:01:53 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.09 | 93578.20 | 237.686720 | 908.5 | true |
| d3-MeFOSAA | 573.0 / 419.0 | 3.63 | 14542.46 | 264.549518 | 206.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 17583.69 | 295.041431 | 194.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.88 | 66586.02 | 258.675787 | 678.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.29 | 75806.83 | 259.855420 | 1105.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.71 | 88230.59 | 254.787601 | 137658.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.11 | 96191.41 | 259.505207 | 7958.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.47 | 104257.56 | 261.874670 | 954.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.80 | 94050.81 | 253.532677 | 6774.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.57 | 80061.69 | 241.309248 | 2029.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 28878.08 | 245.747673 | 519.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.32 | 25256.59 | 260.613088 | 337.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 28125.45 | 251.144046 | 212.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:12:44 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.08 | 105273.47 | 236.489871 | 711.5 | true |
| d3-MeFOSAA | 573.0 / 419.0 | 3.63 | 15762.60 | 244.355224 | 192.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 17508.23 | 250.345681 | 188.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 68771.23 | 241.044127 | 615.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.29 | 78585.87 | 243.044007 | 629.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.71 | 103076.07 | 268.555463 | 1327.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 102088.54 | 248.487072 | 928.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.46 | 109548.88 | 243.364521 | 1129.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.79 | 103933.61 | 247.793995 | 1019.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.56 | 85409.10 | 227.675736 | 2061.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 31599.49 | 229.153269 | 493.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.31 | 24974.11 | 219.602003 | 483.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 34133.02 | 259.730476 | 262.4 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:23:36 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 82785.20 | 244.725664 | 594.2 | true |
| d3-MeFOSAA | 573.0 / 419.0 | 3.62 | 12782.65 | 248.061714 | 146.3 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 13181.55 | 235.944297 | 180.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 57596.77 | 242.891692 | 672.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.29 | 63214.26 | 235.223263 | 705.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.70 | 79906.80 | 250.486670 | 1202.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 84120.62 | 246.350816 | 963.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.46 | 86367.67 | 252.483885 | 979.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.78 | 78564.77 | 246.488011 | 537.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.55 | 65153.94 | 228.552747 | 1724.7 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 20750.77 | 188.375930 | 462.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.31 | 22568.25 | 248.421540 | 385.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 25385.45 | 241.812244 | 254.0 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:34:28 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 83630.61 | 259.116885 | 760.2 | true |
| d3-MeFOSAA | 573.0 / 419.0 | 3.62 | 13036.87 | 235.150088 | 129.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 10988.98 | 182.824015 | 138.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 54506.11 | 239.001083 | 525.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 62892.13 | 243.333341 | 492.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.70 | 71617.41 | 233.431611 | 1556.9 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 83967.14 | 255.682528 | 943.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.46 | 79366.11 | 243.176304 | 603.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.78 | 78520.40 | 258.198717 | 558.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.55 | 68266.05 | 250.988736 | 1954.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 25753.96 | 217.304120 | 502.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.31 | 19025.58 | 194.653402 | 276.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 23982.19 | 212.331758 | 223.4 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:10:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:45:19 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 93270.03 | 258.310095 | 795.0 | true |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 13978.75 | 263.456828 | 108.9 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 14344.12 | 249.355462 | 160.6 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 64968.77 | 271.700296 | 803.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 71102.55 | 262.374325 | 493.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.70 | 80574.39 | 250.477598 | 629.3 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 81867.96 | 237.758750 | 846.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 88770.62 | 243.121962 | 978.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.78 | 74327.70 | 218.469663 | 820.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 81130.37 | 266.625511 | 1811.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 32017.85 | 282.283339 | 501.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 23587.71 | 252.161761 | 291.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 26450.99 | 244.701872 | 193.6 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:26 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.13 | 65728.52 | 112.998705 | 102.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.13 | 11345.50 | 110.962710 | 100.1 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:30 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.12 | 165271.40 | 245.807613 | 161.0 | false |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 28706.92 | 244.538081 | 211.7 | true |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:34 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.12 | 275067.90 | 508.954098 | 204.8 | false |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 48946.70 | 520.238814 | 287.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:39 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.11 | 549475.41 | 953.422687 | 298.0 | false |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 96044.01 | 958.547975 | 432.6 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:43 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.11 | 1306443.89 | 2300.880982 | 452.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 224020.69 | 2271.299000 | 545.6 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:48 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 5888305.73 | 9674.048541 | 719.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 1040866.54 | 9849.093945 | 1187.7 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:52 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 10402856.43 | 20553.887374 | 904.0 | true |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 1792140.82 | 20395.319474 | 1641.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:11:41 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.12 | 29809.56 | 250.871078 | 289.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:11:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.11 | 33752.70 | 243.225761 | 275.4 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:11:50 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 27286.93 | 223.367998 | 263.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:11:54 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 28732.45 | 233.089271 | 315.7 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:11:59 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 28458.87 | 226.800752 | 280.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 30568.34 | 259.494294 | 315.3 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:12:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 25557.23 | 237.900846 | 289.4 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:14:00 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | 8180.80 | 104.771450 | 524.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.82 | 421.19 | 41.412646 | 48.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:14:04 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | 21525.62 | 251.018896 | 397.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | 1206.24 | 191.667209 | 290.9 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:14:07 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | 31971.45 | 508.056535 | 633.3 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | 2497.16 | 637.470069 | 8056.1 | true |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:14:11 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | 66289.88 | 943.782521 | 754.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | 4059.44 | 945.207707 | 43600.8 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:14:15 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | 155433.42 | 2522.760733 | 648.0 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | 9620.27 | 2637.389496 | 1231310.6 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:14:21 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | 707833.72 | 9564.590700 | 1144.3 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | 40332.26 | 9326.284871 | 2770.2 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:14:25 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | 1231583.02 | 20455.019164 | 1168.4 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | 71957.40 | 20511.980648 | 877.0 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:13:16 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.81 | 18885.04 | 261.116785 | 197.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:13:20 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 22032.11 | 260.842878 | 257.9 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:13:24 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 16744.24 | 225.192349 | 304.7 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:13:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 19076.22 | 254.251713 | 210.8 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:13:33 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 16835.01 | 220.425706 | 271.8 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:13:38 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 19940.39 | 278.106701 | 245.9 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:13:42 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 16351.10 | 250.063868 | 251.7 | false |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:15:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:28:31 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.55 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.87 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.28 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.30 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.30 | PFHxS | 0.360 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.69 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.69 | PFOA | 0.030 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.09 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.09 | PFNA | 0.330 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.08 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.08 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.44 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.44 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.76 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.05 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.05 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.29 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.51 | PFTeDA | 0.060 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | NMeFOSAA | 0.500 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.76 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.75 | NEtFOSAA | 0.070 | 0.067 | ü |

BATTELLE

Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:39:24 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.68 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.68 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.08 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.08 | PFNA | 0.290 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.08 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.08 | PFOS | 0.190 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.43 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.44 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.04 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.04 | PFDoA | 0.170 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.29 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.59 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | NMeFOSAA | 0.600 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.75 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.75 | NEtFOSAA | 0.070 | 0.067 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:15:15 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:50:18 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.320 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | PFHxS | 0.320 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.68 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.68 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.07 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.290 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.07 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.07 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.43 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.43 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | PFDoA | 0.170 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | NMeFOSAA | 0.630 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | NEtFOSAA | 0.070 | 0.067 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:15:19 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:01:11 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.68 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.68 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.07 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.330 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.07 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.07 | PFOS | 0.190 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.43 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.43 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | PFDoA | 0.150 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | NMeFOSAA | 0.520 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | NEtFOSAA | 0.070 | 0.067 | ü |

BATTELLE

Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:12:02 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.68 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.68 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.07 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.310 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.07 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.07 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.43 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.43 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | PFDoA | 0.150 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | NMeFOSAA | 0.540 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | NEtFOSAA | 0.060 | 0.067 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:15:27 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:22:53 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | PFHxS | 0.270 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.07 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.300 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.07 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.07 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | NMeFOSAA | 0.540 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:33:45 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.07 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.310 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.07 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.07 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.520 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.070 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:40:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.57 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.57 | PFBS | 0.320 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.90 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.90 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.32 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.021 | |
| PFHxS_1 | 399.0 / 80.0 | 2.34 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.34 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.73 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.73 | PFOA | 0.090 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.14 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.13 | PFNA | 0.320 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.14 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.13 | PFOS | 0.150 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.50 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.50 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.83 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.83 | PFUnA | 0.070 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.12 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.12 | PFDoA | 0.170 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.37 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.37 | PFTrDA | 0.080 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.59 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.59 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.66 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.65 | NMeFOSAA | 0.470 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.82 | NEtFOSAA | 0.080 | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:51:02 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.56 | PFBS | 0.310 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.89 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.31 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.33 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.33 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.73 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.72 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.13 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.13 | PFNA | 0.270 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.12 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.12 | PFOS | 0.190 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.49 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.49 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.82 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.82 | PFUnA | 0.060 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.11 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.10 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.36 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.36 | PFTrDA | 0.070 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.58 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.58 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.65 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.65 | NMeFOSAA | 0.590 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | NEtFOSAA | 0.050 | 0.065 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:01:53 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.56 | PFBS | 0.300 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.89 | PFHxA | 0.070 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.33 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.33 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.72 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.72 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.12 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.12 | PFNA | 0.290 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.12 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.12 | PFOS | 0.180 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.48 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.48 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.81 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.81 | PFUnA | 0.060 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.10 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.10 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.35 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.35 | PFTrDA | 0.070 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.57 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.57 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.64 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.64 | NMeFOSAA | 0.550 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.81 | NEtFOSAA | 0.070 | 0.065 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:12:44 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.56 | PFBS | 0.290 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | PFHxA | 0.080 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.72 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.71 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.12 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.12 | PFNA | 0.310 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.12 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.12 | PFOS | 0.180 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.48 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.48 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.81 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.81 | PFUnA | 0.060 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.09 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.09 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.35 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.34 | PFTrDA | 0.060 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.57 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.57 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | NMeFOSAA | 0.510 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | NEtFOSAA | 0.070 | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:23:36 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.56 | PFBS | 0.300 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | PFHxA | 0.070 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.71 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.71 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.12 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.12 | PFNA | 0.300 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.11 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.11 | PFOS | 0.180 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.47 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.47 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.80 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.80 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.09 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.09 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.34 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.34 | PFTrDA | 0.070 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.56 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.56 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | NMeFOSAA | 0.570 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | NEtFOSAA | 0.060 | 0.065 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:34:28 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.56 | PFBS | 0.290 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | PFHxA | 0.070 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.71 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.71 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.11 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.11 | PFNA | 0.310 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.11 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.11 | PFOS | 0.180 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.47 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.47 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.80 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.80 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.08 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.33 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | PFTrDA | 0.060 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | NMeFOSAA | 0.570 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | NEtFOSAA | 0.060 | 0.065 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:16:20 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:45:19 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.55 | PFBS | 0.300 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | PFHxA | 0.080 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.71 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.71 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.11 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.11 | PFNA | 0.300 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.11 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.11 | PFOS | 0.170 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.47 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.47 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.08 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.33 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | PFTrDA | 0.060 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.62 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.62 | NMeFOSAA | 0.550 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | NEtFOSAA | 0.060 | 0.065 | ü |

BATTELLE

Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.13 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.13 | PFOS | 0.170 | 0.174 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:19:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.12 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.12 | PFOS | 0.170 | 0.174 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:19:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.12 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.12 | PFOS | 0.180 | 0.174 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:19:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.11 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.11 | PFOS | 0.170 | 0.174 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:19:27 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.11 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.11 | PFOS | 0.170 | 0.174 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:19:31 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.10 | PFOS | 0.180 | 0.174 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:19:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.10 | PFOS | 0.170 | 0.174 | ü |

BATTELLE

Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.82 | NEtFOSAA | 0.050 | 0.062 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:20:02 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | NEtFOSAA | 0.060 | 0.062 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:20:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | NEtFOSAA | 0.080 | 0.062 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:20:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | NEtFOSAA | 0.060 | 0.062 | ü |

BATTELLE

Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | NEtFOSAA | 0.060 | 0.062 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:20:25 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | NEtFOSAA | 0.060 | 0.062 | ü |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:20:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | NEtFOSAA | 0.060 | 0.062 | ü |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:21:52 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:28:31 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | 13C3-PFBS | 302.0 / 99.0 | 25326.47 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 13C3-PFBS | 302.0 / 99.0 | 25326.47 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.87 | 13C5-PFHxA | 318.0 / 273.0 | 61875.10 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 61875.10 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.28 | 13C4-PFHpA | 367.0 / 322.0 | 70196.92 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 13C4-PFHpA | 367.0 / 322.0 | 70196.92 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.30 | 13C3-PFHxS | 402.0 / 99.0 | 27961.00 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.30 | 13C3-PFHxS | 402.0 / 99.0 | 27961.00 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.69 | 13C8-PFOA | 421.0 / 376.0 | 91105.89 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.69 | 13C8-PFOA | 421.0 / 376.0 | 91105.89 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.09 | 13C9-PFNA | 472.0 / 427.0 | 90902.82 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.09 | 13C9-PFNA | 472.0 / 427.0 | 90902.82 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.08 | 13C8-PFOS | 507.0 / 99.0 | 25535.58 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.08 | 13C8-PFOS | 507.0 / 99.0 | 25535.58 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.44 | 13C6-PFDA | 519.0 / 474.0 | 96366.68 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.44 | 13C6-PFDA | 519.0 / 474.0 | 96366.68 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.76 | 13C7-PFUnA | 570.0 / 525.0 | 87785.45 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | 13C7-PFUnA | 570.0 / 525.0 | 87785.45 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.05 | 13C2-PFDoA | 615.0 / 570.0 | 95464.43 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.05 | 13C2-PFDoA | 615.0 / 570.0 | 95464.43 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | 13C2-PFTeDA | 715.0 / 670.0 | 75964.33 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.29 | 13C2-PFTeDA | 715.0 / 670.0 | 75964.33 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | 13C2-PFTeDA | 715.0 / 670.0 | 75964.33 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.51 | 13C2-PFTeDA | 715.0 / 670.0 | 75964.33 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | d3-MeFOSAA | 573.0 / 419.0 | 14773.31 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | d3-MeFOSAA | 573.0 / 419.0 | 14773.31 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.76 | d5-EtFOSAA | 589.0 / 419.0 | 18810.00 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.75 | d5-EtFOSAA | 589.0 / 419.0 | 18810.00 | 250.00 |

BATTELLE

Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:39:24 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 27972.97 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 27972.97 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 70054.12 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 70054.12 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 68080.35 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 68080.35 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 25546.46 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 25546.46 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 99019.82 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 99019.82 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.08 | 13C9-PFNA | 472.0 / 427.0 | 103442.30 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.08 | 13C9-PFNA | 472.0 / 427.0 | 103442.30 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.08 | 13C8-PFOS | 507.0 / 99.0 | 28737.99 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.08 | 13C8-PFOS | 507.0 / 99.0 | 28737.99 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 108908.81 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.44 | 13C6-PFDA | 519.0 / 474.0 | 108908.81 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 102483.38 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | 13C7-PFUnA | 570.0 / 525.0 | 102483.38 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.04 | 13C2-PFDoA | 615.0 / 570.0 | 100628.96 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.04 | 13C2-PFDoA | 615.0 / 570.0 | 100628.96 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.29 | 13C2-PFTeDA | 715.0 / 670.0 | 81534.41 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 81534.41 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | 13C2-PFTeDA | 715.0 / 670.0 | 81534.41 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | 13C2-PFTeDA | 715.0 / 670.0 | 81534.41 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.59 | d3-MeFOSAA | 573.0 / 419.0 | 15750.24 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | d3-MeFOSAA | 573.0 / 419.0 | 15750.24 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.75 | d5-EtFOSAA | 589.0 / 419.0 | 18471.39 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.75 | d5-EtFOSAA | 589.0 / 419.0 | 18471.39 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:50:18 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 21119.38 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 21119.38 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 53460.60 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 53460.60 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 63973.57 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 63973.57 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 21695.70 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 21695.70 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 78753.82 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 78753.82 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 80313.82 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 80313.82 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 25780.46 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 25780.46 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 89242.42 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 89242.42 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 81655.21 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 81655.21 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 82925.11 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 82925.11 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 69369.27 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 69369.27 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | 13C2-PFTeDA | 715.0 / 670.0 | 69369.27 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | 13C2-PFTeDA | 715.0 / 670.0 | 69369.27 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 14501.03 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 14501.03 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 14986.21 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 14986.21 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:01:11 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 27455.61 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 27455.61 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 66185.88 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 66185.88 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 69601.25 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 69601.25 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 25839.40 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 25839.40 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 96650.51 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 96650.51 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 94625.21 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 94625.21 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 27346.24 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 27346.24 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 106393.83 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 106393.83 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 102765.50 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 102765.50 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 100968.53 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 100968.53 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 79382.67 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 79382.67 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.50 | 13C2-PFTeDA | 715.0 / 670.0 | 79382.67 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.50 | 13C2-PFTeDA | 715.0 / 670.0 | 79382.67 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 18882.63 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 18882.63 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 21369.49 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 21369.49 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:12:02 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 23945.64 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 23945.64 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 51544.02 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 51544.02 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 62195.95 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 62195.95 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 19569.93 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 19569.93 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 72265.13 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 72265.13 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 80566.06 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 80566.06 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 22545.59 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 22545.59 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 83490.31 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 83490.31 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 84052.70 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 84052.70 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 85108.05 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 85108.05 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 66558.34 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 66558.34 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 13C2-PFTeDA | 715.0 / 670.0 | 66558.34 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | 13C2-PFTeDA | 715.0 / 670.0 | 66558.34 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 12975.64 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 12975.64 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 16256.43 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 16256.43 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:22:53 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 29118.71 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 29118.71 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 60934.81 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 60934.81 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 67350.29 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 67350.29 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 25288.95 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 25288.95 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 83351.46 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 83351.46 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 91248.85 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 91248.85 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 27878.56 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 27878.56 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 101660.43 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 101660.43 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 91247.59 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 91247.59 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 94395.46 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 94395.46 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 79553.55 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 79553.55 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 13C2-PFTeDA | 715.0 / 670.0 | 79553.55 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | 13C2-PFTeDA | 715.0 / 670.0 | 79553.55 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 16556.29 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 16556.29 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 20118.56 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 20118.56 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:33:45 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 27132.18 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 27132.18 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 55421.63 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 55421.63 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 62817.12 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 62817.12 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 21174.43 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 21174.43 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 72077.78 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 72077.78 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 80379.34 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 80379.34 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 21874.88 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 21874.88 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 83934.77 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 83934.77 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 80587.06 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 80587.06 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 94760.50 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 94760.50 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 79206.06 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 79206.06 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 79206.06 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 79206.06 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 19884.49 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 19884.49 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 11522.19 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 11522.19 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:28:31 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.04 | 13C2-PFDA | 515.0 / 470.0 | 97668.20 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.59 | 13C4-PFOS | 503.0 / 99.0 | 31921.29 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.75 | 13C4-PFOS | 503.0 / 99.0 | 31921.29 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 13C2-PFOA | 415.0 / 370.0 | 87694.12 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.27 | 13C2-PFOA | 415.0 / 370.0 | 87694.12 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.68 | 13C2-PFOA | 415.0 / 370.0 | 87694.12 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.07 | 13C2-PFOA | 415.0 / 370.0 | 87694.12 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.43 | 13C2-PFDA | 515.0 / 470.0 | 97668.20 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.75 | 13C2-PFDA | 515.0 / 470.0 | 97668.20 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.51 | 13C2-PFDA | 515.0 / 470.0 | 97668.20 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.53 | 13C4-PFOS | 503.0 / 99.0 | 31921.29 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.29 | 13C4-PFOS | 503.0 / 99.0 | 31921.29 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.07 | 13C4-PFOS | 503.0 / 99.0 | 31921.29 | 239.25 |

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|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:39:24 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.03 | 13C2-PFDA | 515.0 / 470.0 | 111647.70 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.58 | 13C4-PFOS | 503.0 / 99.0 | 32120.24 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.74 | 13C4-PFOS | 503.0 / 99.0 | 32120.24 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 13C2-PFOA | 415.0 / 370.0 | 92810.43 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 13C2-PFOA | 415.0 / 370.0 | 92810.43 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 13C2-PFOA | 415.0 / 370.0 | 92810.43 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 13C2-PFOA | 415.0 / 370.0 | 92810.43 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.42 | 13C2-PFDA | 515.0 / 470.0 | 111647.70 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.74 | 13C2-PFDA | 515.0 / 470.0 | 111647.70 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.50 | 13C2-PFDA | 515.0 / 470.0 | 111647.70 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 32120.24 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 13C4-PFOS | 503.0 / 99.0 | 32120.24 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 13C4-PFOS | 503.0 / 99.0 | 32120.24 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:50:18 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 13C2-PFDA | 515.0 / 470.0 | 87134.11 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 25991.21 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.74 | 13C4-PFOS | 503.0 / 99.0 | 25991.21 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 13C2-PFOA | 415.0 / 370.0 | 77486.60 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 13C2-PFOA | 415.0 / 370.0 | 77486.60 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 13C2-PFOA | 415.0 / 370.0 | 77486.60 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 13C2-PFOA | 415.0 / 370.0 | 77486.60 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 87134.11 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 87134.11 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.49 | 13C2-PFDA | 515.0 / 470.0 | 87134.11 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.53 | 13C4-PFOS | 503.0 / 99.0 | 25991.21 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 13C4-PFOS | 503.0 / 99.0 | 25991.21 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 13C4-PFOS | 503.0 / 99.0 | 25991.21 | 239.25 |

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|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:01:11 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 13C2-PFDA | 515.0 / 470.0 | 108936.77 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.58 | 13C4-PFOS | 503.0 / 99.0 | 29531.69 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.74 | 13C4-PFOS | 503.0 / 99.0 | 29531.69 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 13C2-PFOA | 415.0 / 370.0 | 86595.38 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 86595.38 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 13C2-PFOA | 415.0 / 370.0 | 86595.38 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 13C2-PFOA | 415.0 / 370.0 | 86595.38 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 108936.77 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 108936.77 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.49 | 13C2-PFDA | 515.0 / 470.0 | 108936.77 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 29531.69 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 13C4-PFOS | 503.0 / 99.0 | 29531.69 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 13C4-PFOS | 503.0 / 99.0 | 29531.69 | 239.25 |

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|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:12:02 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 13C2-PFDA | 515.0 / 470.0 | 87027.40 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 25878.77 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 25878.77 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 13C2-PFOA | 415.0 / 370.0 | 66861.87 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 13C2-PFOA | 415.0 / 370.0 | 66861.87 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 13C2-PFOA | 415.0 / 370.0 | 66861.87 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 13C2-PFOA | 415.0 / 370.0 | 66861.87 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 87027.40 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 87027.40 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 87027.40 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.53 | 13C4-PFOS | 503.0 / 99.0 | 25878.77 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 13C4-PFOS | 503.0 / 99.0 | 25878.77 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 13C4-PFOS | 503.0 / 99.0 | 25878.77 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:22:53 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 13C2-PFDA | 515.0 / 470.0 | 101516.20 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 29874.04 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 29874.04 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 81119.78 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 81119.78 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 81119.78 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 13C2-PFOA | 415.0 / 370.0 | 81119.78 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 101516.20 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 101516.20 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.49 | 13C2-PFDA | 515.0 / 470.0 | 101516.20 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 29874.04 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 13C4-PFOS | 503.0 / 99.0 | 29874.04 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 29874.04 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:33:45 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 95725.84 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 26878.59 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 26878.59 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 79331.56 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 79331.56 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 79331.56 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.06 | 13C2-PFOA | 415.0 / 370.0 | 79331.56 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 95725.84 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 95725.84 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 95725.84 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 26878.59 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 26878.59 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 26878.59 | 239.25 |

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|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:40:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.57 | 13C3-PFBS | 302.0 / 99.0 | 28430.62 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.57 | 13C3-PFBS | 302.0 / 99.0 | 28430.62 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.90 | 13C5-PFHxA | 318.0 / 273.0 | 69346.03 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.90 | 13C5-PFHxA | 318.0 / 273.0 | 69346.03 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.32 | 13C4-PFHpA | 367.0 / 322.0 | 81490.43 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 81490.43 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.34 | 13C3-PFHxS | 402.0 / 99.0 | 25654.13 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.34 | 13C3-PFHxS | 402.0 / 99.0 | 25654.13 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.73 | 13C8-PFOA | 421.0 / 376.0 | 88667.45 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.73 | 13C8-PFOA | 421.0 / 376.0 | 88667.45 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.14 | 13C9-PFNA | 472.0 / 427.0 | 95060.67 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.13 | 13C9-PFNA | 472.0 / 427.0 | 95060.67 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.14 | 13C8-PFOS | 507.0 / 99.0 | 26685.55 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.13 | 13C8-PFOS | 507.0 / 99.0 | 26685.55 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.50 | 13C6-PFDA | 519.0 / 474.0 | 102747.84 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.50 | 13C6-PFDA | 519.0 / 474.0 | 102747.84 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.83 | 13C7-PFUnA | 570.0 / 525.0 | 96456.00 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.83 | 13C7-PFUnA | 570.0 / 525.0 | 96456.00 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.12 | 13C2-PFDoA | 615.0 / 570.0 | 104536.27 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.12 | 13C2-PFDoA | 615.0 / 570.0 | 104536.27 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.37 | 13C2-PFTeDA | 715.0 / 670.0 | 91146.52 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.37 | 13C2-PFTeDA | 715.0 / 670.0 | 91146.52 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.59 | 13C2-PFTeDA | 715.0 / 670.0 | 91146.52 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.59 | 13C2-PFTeDA | 715.0 / 670.0 | 91146.52 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.66 | d3-MeFOSAA | 573.0 / 419.0 | 15939.93 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.65 | d3-MeFOSAA | 573.0 / 419.0 | 15939.93 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | d5-EtFOSAA | 589.0 / 419.0 | 16543.90 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.82 | d5-EtFOSAA | 589.0 / 419.0 | 16543.90 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:51:02 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 31592.73 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 31592.73 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | 13C5-PFHxA | 318.0 / 273.0 | 68053.92 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.89 | 13C5-PFHxA | 318.0 / 273.0 | 68053.92 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.31 | 13C4-PFHpA | 367.0 / 322.0 | 77180.54 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 13C4-PFHpA | 367.0 / 322.0 | 77180.54 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.33 | 13C3-PFHxS | 402.0 / 99.0 | 25291.49 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.33 | 13C3-PFHxS | 402.0 / 99.0 | 25291.49 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.73 | 13C8-PFOA | 421.0 / 376.0 | 94578.42 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.72 | 13C8-PFOA | 421.0 / 376.0 | 94578.42 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.13 | 13C9-PFNA | 472.0 / 427.0 | 105077.59 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.13 | 13C9-PFNA | 472.0 / 427.0 | 105077.59 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 30719.80 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 30719.80 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.49 | 13C6-PFDA | 519.0 / 474.0 | 104286.39 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.49 | 13C6-PFDA | 519.0 / 474.0 | 104286.39 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.82 | 13C7-PFUnA | 570.0 / 525.0 | 104057.87 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.82 | 13C7-PFUnA | 570.0 / 525.0 | 104057.87 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.11 | 13C2-PFDoA | 615.0 / 570.0 | 105895.90 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.10 | 13C2-PFDoA | 615.0 / 570.0 | 105895.90 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.36 | 13C2-PFTeDA | 715.0 / 670.0 | 91200.68 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.36 | 13C2-PFTeDA | 715.0 / 670.0 | 91200.68 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.58 | 13C2-PFTeDA | 715.0 / 670.0 | 91200.68 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.58 | 13C2-PFTeDA | 715.0 / 670.0 | 91200.68 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.65 | d3-MeFOSAA | 573.0 / 419.0 | 13993.03 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.65 | d3-MeFOSAA | 573.0 / 419.0 | 13993.03 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | d5-EtFOSAA | 589.0 / 419.0 | 19400.08 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 19400.08 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:01:53 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 28878.08 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 28878.08 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | 13C5-PFHxA | 318.0 / 273.0 | 66586.02 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.89 | 13C5-PFHxA | 318.0 / 273.0 | 66586.02 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | 13C4-PFHpA | 367.0 / 322.0 | 75806.83 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 13C4-PFHpA | 367.0 / 322.0 | 75806.83 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.33 | 13C3-PFHxS | 402.0 / 99.0 | 25391.07 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.33 | 13C3-PFHxS | 402.0 / 99.0 | 25391.07 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.72 | 13C8-PFOA | 421.0 / 376.0 | 88230.59 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.72 | 13C8-PFOA | 421.0 / 376.0 | 88230.59 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.12 | 13C9-PFNA | 472.0 / 427.0 | 96191.41 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.12 | 13C9-PFNA | 472.0 / 427.0 | 96191.41 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 28442.60 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 28442.60 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.48 | 13C6-PFDA | 519.0 / 474.0 | 104257.56 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.48 | 13C6-PFDA | 519.0 / 474.0 | 104257.56 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.81 | 13C7-PFUnA | 570.0 / 525.0 | 94050.81 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.81 | 13C7-PFUnA | 570.0 / 525.0 | 94050.81 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.10 | 13C2-PFDoA | 615.0 / 570.0 | 95733.32 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.10 | 13C2-PFDoA | 615.0 / 570.0 | 95733.32 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.35 | 13C2-PFTeDA | 715.0 / 670.0 | 80061.69 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.35 | 13C2-PFTeDA | 715.0 / 670.0 | 80061.69 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.57 | 13C2-PFTeDA | 715.0 / 670.0 | 80061.69 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.57 | 13C2-PFTeDA | 715.0 / 670.0 | 80061.69 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.64 | d3-MeFOSAA | 573.0 / 419.0 | 14678.96 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.64 | d3-MeFOSAA | 573.0 / 419.0 | 14678.96 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | d5-EtFOSAA | 589.0 / 419.0 | 17704.11 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.81 | d5-EtFOSAA | 589.0 / 419.0 | 17704.11 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:12:44 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 31599.49 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 31599.49 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 68771.23 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 68771.23 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | 13C4-PFHpA | 367.0 / 322.0 | 78585.87 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 13C4-PFHpA | 367.0 / 322.0 | 78585.87 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 24551.90 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 24551.90 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.72 | 13C8-PFOA | 421.0 / 376.0 | 103076.07 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 13C8-PFOA | 421.0 / 376.0 | 103076.07 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.12 | 13C9-PFNA | 472.0 / 427.0 | 102088.54 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.12 | 13C9-PFNA | 472.0 / 427.0 | 102088.54 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 34086.83 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 34086.83 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.48 | 13C6-PFDA | 519.0 / 474.0 | 109548.88 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.48 | 13C6-PFDA | 519.0 / 474.0 | 109548.88 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.81 | 13C7-PFUnA | 570.0 / 525.0 | 103933.61 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.81 | 13C7-PFUnA | 570.0 / 525.0 | 103933.61 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.09 | 13C2-PFDoA | 615.0 / 570.0 | 107722.17 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.09 | 13C2-PFDoA | 615.0 / 570.0 | 107722.17 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.35 | 13C2-PFTeDA | 715.0 / 670.0 | 85409.10 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.34 | 13C2-PFTeDA | 715.0 / 670.0 | 85409.10 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.57 | 13C2-PFTeDA | 715.0 / 670.0 | 85409.10 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.57 | 13C2-PFTeDA | 715.0 / 670.0 | 85409.10 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | d3-MeFOSAA | 573.0 / 419.0 | 14975.26 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | d3-MeFOSAA | 573.0 / 419.0 | 14975.26 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 17987.54 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 17987.54 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:23:36 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 20750.77 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 20750.77 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.89 | 13C5-PFHxA | 318.0 / 273.0 | 57596.77 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 57596.77 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.30 | 13C4-PFHpA | 367.0 / 322.0 | 63214.26 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 13C4-PFHpA | 367.0 / 322.0 | 63214.26 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 21504.85 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 21504.85 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.71 | 13C8-PFOA | 421.0 / 376.0 | 79906.80 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 13C8-PFOA | 421.0 / 376.0 | 79906.80 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.12 | 13C9-PFNA | 472.0 / 427.0 | 84120.62 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.12 | 13C9-PFNA | 472.0 / 427.0 | 84120.62 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 24749.09 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 24749.09 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.47 | 13C6-PFDA | 519.0 / 474.0 | 86367.67 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.47 | 13C6-PFDA | 519.0 / 474.0 | 86367.67 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.80 | 13C7-PFUnA | 570.0 / 525.0 | 78564.77 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.80 | 13C7-PFUnA | 570.0 / 525.0 | 78564.77 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.09 | 13C2-PFDoA | 615.0 / 570.0 | 84273.58 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.09 | 13C2-PFDoA | 615.0 / 570.0 | 84273.58 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.34 | 13C2-PFTeDA | 715.0 / 670.0 | 65153.94 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.34 | 13C2-PFTeDA | 715.0 / 670.0 | 65153.94 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.56 | 13C2-PFTeDA | 715.0 / 670.0 | 65153.94 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.56 | 13C2-PFTeDA | 715.0 / 670.0 | 65153.94 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | d3-MeFOSAA | 573.0 / 419.0 | 12856.87 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | d3-MeFOSAA | 573.0 / 419.0 | 12856.87 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 13757.11 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 13757.11 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:34:28 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 25753.96 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 25753.96 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 54506.11 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 54506.11 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 13C4-PFHpA | 367.0 / 322.0 | 62892.13 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.30 | 13C4-PFHpA | 367.0 / 322.0 | 62892.13 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 19042.03 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 19042.03 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.71 | 13C8-PFOA | 421.0 / 376.0 | 71617.41 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 13C8-PFOA | 421.0 / 376.0 | 71617.41 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.11 | 13C9-PFNA | 472.0 / 427.0 | 83967.14 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.11 | 13C9-PFNA | 472.0 / 427.0 | 83967.14 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 24380.31 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 24380.31 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.47 | 13C6-PFDA | 519.0 / 474.0 | 79366.11 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.47 | 13C6-PFDA | 519.0 / 474.0 | 79366.11 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.80 | 13C7-PFUnA | 570.0 / 525.0 | 78520.40 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.80 | 13C7-PFUnA | 570.0 / 525.0 | 78520.40 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | 13C2-PFDoA | 615.0 / 570.0 | 84232.72 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.08 | 13C2-PFDoA | 615.0 / 570.0 | 84232.72 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.33 | 13C2-PFTeDA | 715.0 / 670.0 | 68266.05 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | 13C2-PFTeDA | 715.0 / 670.0 | 68266.05 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | 13C2-PFTeDA | 715.0 / 670.0 | 68266.05 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | 13C2-PFTeDA | 715.0 / 670.0 | 68266.05 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.63 | d3-MeFOSAA | 573.0 / 419.0 | 13328.65 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.63 | d3-MeFOSAA | 573.0 / 419.0 | 13328.65 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 11280.66 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 11280.66 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:45:19 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 32017.85 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 13C3-PFBS | 302.0 / 99.0 | 32017.85 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 64968.77 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 64968.77 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 13C4-PFHpA | 367.0 / 322.0 | 71102.55 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 13C4-PFHpA | 367.0 / 322.0 | 71102.55 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 22496.52 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 22496.52 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.71 | 13C8-PFOA | 421.0 / 376.0 | 80574.39 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.71 | 13C8-PFOA | 421.0 / 376.0 | 80574.39 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.11 | 13C9-PFNA | 472.0 / 427.0 | 81867.96 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.11 | 13C9-PFNA | 472.0 / 427.0 | 81867.96 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 26117.18 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 26117.18 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.47 | 13C6-PFDA | 519.0 / 474.0 | 88770.62 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.47 | 13C6-PFDA | 519.0 / 474.0 | 88770.62 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | 13C7-PFUnA | 570.0 / 525.0 | 74327.70 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | 13C7-PFUnA | 570.0 / 525.0 | 74327.70 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | 13C2-PFDoA | 615.0 / 570.0 | 93999.68 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.08 | 13C2-PFDoA | 615.0 / 570.0 | 93999.68 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.33 | 13C2-PFTeDA | 715.0 / 670.0 | 81130.37 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | 13C2-PFTeDA | 715.0 / 670.0 | 81130.37 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | 13C2-PFTeDA | 715.0 / 670.0 | 81130.37 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | 13C2-PFTeDA | 715.0 / 670.0 | 81130.37 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.62 | d3-MeFOSAA | 573.0 / 419.0 | 13419.07 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.62 | d3-MeFOSAA | 573.0 / 419.0 | 13419.07 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 14121.61 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 14121.61 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:40:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.11 | 13C2-PFDA | 515.0 / 470.0 | 101004.57 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.65 | 13C4-PFOS | 503.0 / 99.0 | 30187.37 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.81 | 13C4-PFOS | 503.0 / 99.0 | 30187.37 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.89 | 13C2-PFOA | 415.0 / 370.0 | 86591.46 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.30 | 13C2-PFOA | 415.0 / 370.0 | 86591.46 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.72 | 13C2-PFOA | 415.0 / 370.0 | 86591.46 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.12 | 13C2-PFOA | 415.0 / 370.0 | 86591.46 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.49 | 13C2-PFDA | 515.0 / 470.0 | 101004.57 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.81 | 13C2-PFDA | 515.0 / 470.0 | 101004.57 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.59 | 13C2-PFDA | 515.0 / 470.0 | 101004.57 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.55 | 13C4-PFOS | 503.0 / 99.0 | 30187.37 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.33 | 13C4-PFOS | 503.0 / 99.0 | 30187.37 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.12 | 13C4-PFOS | 503.0 / 99.0 | 30187.37 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:51:02 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.09 | 13C2-PFDA | 515.0 / 470.0 | 106217.49 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.64 | 13C4-PFOS | 503.0 / 99.0 | 30121.59 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 13C4-PFOS | 503.0 / 99.0 | 30121.59 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.88 | 13C2-PFOA | 415.0 / 370.0 | 87760.75 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.30 | 13C2-PFOA | 415.0 / 370.0 | 87760.75 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.71 | 13C2-PFOA | 415.0 / 370.0 | 87760.75 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.11 | 13C2-PFOA | 415.0 / 370.0 | 87760.75 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.48 | 13C2-PFDA | 515.0 / 470.0 | 106217.49 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.80 | 13C2-PFDA | 515.0 / 470.0 | 106217.49 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.57 | 13C2-PFDA | 515.0 / 470.0 | 106217.49 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.55 | 13C4-PFOS | 503.0 / 99.0 | 30121.59 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.32 | 13C4-PFOS | 503.0 / 99.0 | 30121.59 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.11 | 13C4-PFOS | 503.0 / 99.0 | 30121.59 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:01:53 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.09 | 13C2-PFDA | 515.0 / 470.0 | 100766.55 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.63 | 13C4-PFOS | 503.0 / 99.0 | 27324.91 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 13C4-PFOS | 503.0 / 99.0 | 27324.91 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.88 | 13C2-PFOA | 415.0 / 370.0 | 81109.93 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.29 | 13C2-PFOA | 415.0 / 370.0 | 81109.93 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.71 | 13C2-PFOA | 415.0 / 370.0 | 81109.93 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.11 | 13C2-PFOA | 415.0 / 370.0 | 81109.93 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.47 | 13C2-PFDA | 515.0 / 470.0 | 100766.55 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.80 | 13C2-PFDA | 515.0 / 470.0 | 100766.55 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.57 | 13C2-PFDA | 515.0 / 470.0 | 100766.55 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 13C4-PFOS | 503.0 / 99.0 | 27324.91 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.32 | 13C4-PFOS | 503.0 / 99.0 | 27324.91 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 13C4-PFOS | 503.0 / 99.0 | 27324.91 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:12:44 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.08 | 13C2-PFDA | 515.0 / 470.0 | 113933.91 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.63 | 13C4-PFOS | 503.0 / 99.0 | 32065.20 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 13C4-PFOS | 503.0 / 99.0 | 32065.20 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 13C2-PFOA | 415.0 / 370.0 | 89899.45 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.29 | 13C2-PFOA | 415.0 / 370.0 | 89899.45 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.71 | 13C2-PFOA | 415.0 / 370.0 | 89899.45 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 13C2-PFOA | 415.0 / 370.0 | 89899.45 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.46 | 13C2-PFDA | 515.0 / 470.0 | 113933.91 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.79 | 13C2-PFDA | 515.0 / 470.0 | 113933.91 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.56 | 13C2-PFDA | 515.0 / 470.0 | 113933.91 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 13C4-PFOS | 503.0 / 99.0 | 32065.20 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.31 | 13C4-PFOS | 503.0 / 99.0 | 32065.20 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 13C4-PFOS | 503.0 / 99.0 | 32065.20 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:23:36 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 13C2-PFDA | 515.0 / 470.0 | 86580.45 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.62 | 13C4-PFOS | 503.0 / 99.0 | 25614.67 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 13C4-PFOS | 503.0 / 99.0 | 25614.67 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 13C2-PFOA | 415.0 / 370.0 | 74719.21 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.29 | 13C2-PFOA | 415.0 / 370.0 | 74719.21 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.70 | 13C2-PFOA | 415.0 / 370.0 | 74719.21 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 13C2-PFOA | 415.0 / 370.0 | 74719.21 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.46 | 13C2-PFDA | 515.0 / 470.0 | 86580.45 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.78 | 13C2-PFDA | 515.0 / 470.0 | 86580.45 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.55 | 13C2-PFDA | 515.0 / 470.0 | 86580.45 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 13C4-PFOS | 503.0 / 99.0 | 25614.67 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.31 | 13C4-PFOS | 503.0 / 99.0 | 25614.67 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 13C4-PFOS | 503.0 / 99.0 | 25614.67 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:34:28 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 13C2-PFDA | 515.0 / 470.0 | 82606.87 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.62 | 13C4-PFOS | 503.0 / 99.0 | 27558.53 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 13C4-PFOS | 503.0 / 99.0 | 27558.53 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 13C2-PFOA | 415.0 / 370.0 | 71860.81 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 13C2-PFOA | 415.0 / 370.0 | 71860.81 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.70 | 13C2-PFOA | 415.0 / 370.0 | 71860.81 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 13C2-PFOA | 415.0 / 370.0 | 71860.81 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.46 | 13C2-PFDA | 515.0 / 470.0 | 82606.87 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.78 | 13C2-PFDA | 515.0 / 470.0 | 82606.87 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.55 | 13C2-PFDA | 515.0 / 470.0 | 82606.87 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 13C4-PFOS | 503.0 / 99.0 | 27558.53 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.31 | 13C4-PFOS | 503.0 / 99.0 | 27558.53 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 13C4-PFOS | 503.0 / 99.0 | 27558.53 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:45:19 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 13C2-PFDA | 515.0 / 470.0 | 92416.04 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 13C4-PFOS | 503.0 / 99.0 | 26374.66 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 13C4-PFOS | 503.0 / 99.0 | 26374.66 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.87 | 13C2-PFOA | 415.0 / 370.0 | 75346.19 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 13C2-PFOA | 415.0 / 370.0 | 75346.19 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.70 | 13C2-PFOA | 415.0 / 370.0 | 75346.19 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.10 | 13C2-PFOA | 415.0 / 370.0 | 75346.19 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 13C2-PFDA | 515.0 / 470.0 | 92416.04 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.78 | 13C2-PFDA | 515.0 / 470.0 | 92416.04 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 13C2-PFDA | 515.0 / 470.0 | 92416.04 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 13C4-PFOS | 503.0 / 99.0 | 26374.66 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 13C4-PFOS | 503.0 / 99.0 | 26374.66 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 13C4-PFOS | 503.0 / 99.0 | 26374.66 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.13 | 13C8-PFOS | 507.0 / 99.0 | 29514.87 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.13 | 13C8-PFOS | 507.0 / 99.0 | 29514.87 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 33822.33 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 33822.33 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 27084.38 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.12 | 13C8-PFOS | 507.0 / 99.0 | 27084.38 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 28834.11 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 28834.11 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 28376.74 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 28376.74 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:25:35 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 30401.17 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 30401.17 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:25:39 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 25276.93 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 25276.93 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:24:19 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.12 | 13C4-PFOS | 503.0 / 99.0 | 29846.55 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:24:24 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.11 | 13C4-PFOS | 503.0 / 99.0 | 34856.85 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:24:27 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 13C4-PFOS | 503.0 / 99.0 | 30684.77 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:24:31 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 13C4-PFOS | 503.0 / 99.0 | 30962.75 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:24:34 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.10 | 13C4-PFOS | 503.0 / 99.0 | 31518.26 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:24:38 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 13C4-PFOS | 503.0 / 99.0 | 29589.19 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:24:42 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 13C4-PFOS | 503.0 / 99.0 | 26984.04 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:27:00 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | d5-EtFOSAA | 589.0 / 419.0 | 19192.99 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.82 | d5-EtFOSAA | 589.0 / 419.0 | 19192.99 | 250.00 |

BATTELLE

Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.81 | d5-EtFOSAA | 589.0 / 419.0 | 22570.27 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 22570.27 | 250.00 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:27:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 16999.01 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 16999.01 | 250.00 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:27:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 19201.47 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.80 | d5-EtFOSAA | 589.0 / 419.0 | 19201.47 | 250.00 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:27:16 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 16992.28 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 16992.28 | 250.00 |

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Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:27:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 20489.99 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.79 | d5-EtFOSAA | 589.0 / 419.0 | 20489.99 | 250.00 |

BATTELLE

Summary Internal Standard Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | d5-EtFOSAA | 589.0 / 419.0 | 16682.63 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | d5-EtFOSAA | 589.0 / 419.0 | 16682.63 | 250.00 |

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Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:26:16 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.81 | 13C4-PFOS | 503.0 / 99.0 | 29846.55 | 239.25 |

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Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:26:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 13C4-PFOS | 503.0 / 99.0 | 34856.85 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:26:26 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 13C4-PFOS | 503.0 / 99.0 | 30684.77 | 239.25 |

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Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:26:30 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.79 | 13C4-PFOS | 503.0 / 99.0 | 30962.75 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:26:34 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 13C4-PFOS | 503.0 / 99.0 | 31518.26 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:26:38 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 13C4-PFOS | 503.0 / 99.0 | 29589.19 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:26:42 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 13C4-PFOS | 503.0 / 99.0 | 26984.04 | 239.25 |

BATTELLE

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:29:34 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 913.867745 | 1010.00 | 90.48 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 903.813326 | 1010.00 | 89.49 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 968.776354 | 1010.00 | 95.92 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 924.540974 | 1010.00 | 91.54 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 817.749195 | 1000.00 | 81.77 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 723.789535 | 1000.00 | 72.38 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1000.435431 | 1010.00 | 99.05 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 987.914601 | 1010.00 | 97.81 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 981.693812 | 1000.00 | 98.17 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 1017.229982 | 1000.00 | 101.72 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 973.995611 | 1000.00 | 97.40 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 942.209293 | 1000.00 | 94.22 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 725.166869 | 1000.00 | 72.52 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 706.312779 | 1000.00 | 70.63 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 929.080237 | 1000.00 | 92.91 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 950.462692 | 1000.00 | 95.05 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 898.766804 | 1000.00 | 89.88 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 851.690188 | 1000.00 | 85.17 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 959.018285 | 1000.00 | 95.90 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 959.418095 | 1000.00 | 95.94 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 1032.137302 | 1000.00 | 103.21 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 1078.203364 | 1000.00 | 107.82 |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 1008.403351 | 1000.00 | 100.84 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 1005.887135 | 1000.00 | 100.59 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 980.964024 | 1000.00 | 98.10 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 1004.036483 | 1000.00 | 100.40 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 1015.935105 | 1000.00 | 101.59 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 717.515865 | 1000.00 | 71.75 |

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QC Summary Report

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|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2351.197345 | 2525.00 | 93.12 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2332.946979 | 2525.00 | 92.39 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 2434.478801 | 2525.00 | 96.42 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 2269.281549 | 2525.00 | 89.87 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 2436.510978 | 2500.00 | 97.46 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 2155.081049 | 2500.00 | 86.20 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 2286.635467 | 2525.00 | 90.56 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 2320.336697 | 2525.00 | 91.89 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 2436.141771 | 2500.00 | 97.45 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 2299.274615 | 2500.00 | 91.97 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 2492.685719 | 2500.00 | 99.71 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 2666.679808 | 2500.00 | 106.67 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 2225.382945 | 2500.00 | 89.02 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2207.975888 | 2500.00 | 88.32 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 2457.704763 | 2500.00 | 98.31 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 2356.127000 | 2500.00 | 94.25 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 2302.954249 | 2500.00 | 92.12 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 2291.169516 | 2500.00 | 91.65 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 2404.314711 | 2500.00 | 96.17 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 2491.298992 | 2500.00 | 99.65 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 2722.877329 | 2500.00 | 108.92 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 2714.938263 | 2500.00 | 108.60 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 2743.089468 | 2500.00 | 109.72 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 2682.707839 | 2500.00 | 107.31 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 2383.185837 | 2500.00 | 95.33 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 2486.296359 | 2500.00 | 99.45 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 2503.355120 | 2500.00 | 100.13 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 2001.000089 | 2500.00 | 80.04 |

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QC Summary Report

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1016.912778 | 1010.00 | 100.68 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 978.444073 | 1010.00 | 96.88 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 985.208640 | 1010.00 | 97.55 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 1028.950271 | 1010.00 | 101.88 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 987.027338 | 1000.00 | 98.70 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 1015.111015 | 1000.00 | 101.51 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1026.364175 | 1010.00 | 101.62 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1019.176624 | 1010.00 | 100.91 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 913.111804 | 1000.00 | 91.31 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 914.452582 | 1000.00 | 91.45 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 1045.508918 | 1000.00 | 104.55 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 980.161168 | 1000.00 | 98.02 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1119.844092 | 1000.00 | 111.98 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 1123.071523 | 1000.00 | 112.31 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 1050.092836 | 1000.00 | 105.01 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 1004.819213 | 1000.00 | 100.48 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 936.154016 | 1000.00 | 93.62 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 942.260274 | 1000.00 | 94.23 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 958.474922 | 1000.00 | 95.85 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 1053.412529 | 1000.00 | 105.34 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 1054.529453 | 1000.00 | 105.45 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 1050.656268 | 1000.00 | 105.07 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 1036.843311 | 1000.00 | 103.68 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 1036.703908 | 1000.00 | 103.67 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 976.439216 | 1000.00 | 97.64 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 966.420500 | 1000.00 | 96.64 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 1174.207413 | 1000.00 | 117.42 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 928.962838 | 1000.00 | 92.90 |

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|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 2400.012537 | 2525.00 | 95.05 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 2351.440303 | 2525.00 | 93.13 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 2343.622905 | 2525.00 | 92.82 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 2253.847020 | 2525.00 | 89.26 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 2443.827051 | 2500.00 | 97.75 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 2599.308075 | 2500.00 | 103.97 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 2481.124671 | 2525.00 | 98.26 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 2543.679180 | 2525.00 | 100.74 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 2380.536459 | 2500.00 | 95.22 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 2253.954765 | 2500.00 | 90.16 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 2429.118494 | 2500.00 | 97.16 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 2470.319886 | 2500.00 | 98.81 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 2536.260259 | 2500.00 | 101.45 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2562.875999 | 2500.00 | 102.52 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 2555.816087 | 2500.00 | 102.23 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 2693.029159 | 2500.00 | 107.72 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 2303.706627 | 2500.00 | 92.15 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 2343.077789 | 2500.00 | 93.72 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 2667.956889 | 2500.00 | 106.72 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 2675.502395 | 2500.00 | 107.02 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 2560.590554 | 2500.00 | 102.42 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 2640.444666 | 2500.00 | 105.62 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 2493.140172 | 2500.00 | 99.73 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 2500.338130 | 2500.00 | 100.01 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 2782.818830 | 2500.00 | 111.31 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 2781.179673 | 2500.00 | 111.25 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 2818.311982 | 2500.00 | 112.73 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 2206.205069 | 2500.00 | 88.25 |

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1020.277118 | 1010.00 | 101.02 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 965.607723 | 1010.00 | 95.60 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 998.055732 | 1010.00 | 98.82 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 916.619390 | 1010.00 | 90.75 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 1016.380512 | 1000.00 | 101.64 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 970.994717 | 1000.00 | 97.10 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 948.650740 | 1010.00 | 93.93 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 916.301209 | 1010.00 | 90.72 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1004.281602 | 1000.00 | 100.43 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 987.473532 | 1000.00 | 98.75 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 1035.038623 | 1000.00 | 103.50 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 986.082838 | 1000.00 | 98.61 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1057.831700 | 1000.00 | 105.78 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 1094.217757 | 1000.00 | 109.42 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 999.800476 | 1000.00 | 99.98 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 956.727255 | 1000.00 | 95.67 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 1018.667678 | 1000.00 | 101.87 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 1028.728814 | 1000.00 | 102.87 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 1021.629546 | 1000.00 | 102.16 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 1014.164939 | 1000.00 | 101.42 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 1101.782359 | 1000.00 | 110.18 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 1139.247370 | 1000.00 | 113.92 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 1090.397918 | 1000.00 | 109.04 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 1046.339010 | 1000.00 | 104.63 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 981.456872 | 1000.00 | 98.15 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 1030.953758 | 1000.00 | 103.10 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 1297.357365 | 1000.00 | 129.74 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 1017.356744 | 1000.00 | 101.74 |

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|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2461.929971 | 2525.00 | 97.50 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2453.058863 | 2525.00 | 97.15 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 2233.046653 | 2525.00 | 88.44 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 2263.320287 | 2525.00 | 89.64 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 2474.137751 | 2500.00 | 98.97 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 2493.250971 | 2500.00 | 99.73 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 2660.622814 | 2525.00 | 105.37 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 2809.630365 | 2525.00 | 111.27 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 2684.831798 | 2500.00 | 107.39 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 2768.966499 | 2500.00 | 110.76 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 2274.014766 | 2500.00 | 90.96 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 2368.685481 | 2500.00 | 94.75 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 2527.300153 | 2500.00 | 101.09 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2436.349268 | 2500.00 | 97.45 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 2551.976671 | 2500.00 | 102.08 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 2396.764682 | 2500.00 | 95.87 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 2391.838319 | 2500.00 | 95.67 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 2306.984981 | 2500.00 | 92.28 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 2663.894823 | 2500.00 | 106.56 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 2579.545325 | 2500.00 | 103.18 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 2686.294912 | 2500.00 | 107.45 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 2802.203054 | 2500.00 | 112.09 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 2647.988066 | 2500.00 | 105.92 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 2718.342739 | 2500.00 | 108.73 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 2625.542853 | 2500.00 | 105.02 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 2427.204419 | 2500.00 | 97.09 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 2302.129775 | 2500.00 | 92.09 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 1753.186392 | 2500.00 | 70.13 |

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QC Summary Report

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1037.917238 | 1010.00 | 102.76 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1055.576148 | 1010.00 | 104.51 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 965.691722 | 1010.00 | 95.61 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 908.600477 | 1010.00 | 89.96 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 951.246134 | 1000.00 | 95.12 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 935.211723 | 1000.00 | 93.52 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1216.866520 | 1010.00 | 120.48 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1266.043408 | 1010.00 | 125.35 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1041.367024 | 1000.00 | 104.14 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 1024.256776 | 1000.00 | 102.43 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 1041.688606 | 1000.00 | 104.17 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 1024.043143 | 1000.00 | 102.40 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 991.332759 | 1000.00 | 99.13 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 1008.655776 | 1000.00 | 100.87 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 1043.776519 | 1000.00 | 104.38 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 1157.879018 | 1000.00 | 115.79 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 949.438102 | 1000.00 | 94.94 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 925.567888 | 1000.00 | 92.56 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 1027.300053 | 1000.00 | 102.73 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 1005.811400 | 1000.00 | 100.58 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 1151.626302 | 1000.00 | 115.16 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 1100.145247 | 1000.00 | 110.01 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 1093.109833 | 1000.00 | 109.31 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 1092.502216 | 1000.00 | 109.25 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 1274.683389 | 1000.00 | 127.47 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 1276.304863 | 1000.00 | 127.63 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 1090.987560 | 1000.00 | 109.10 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 865.372604 | 1000.00 | 86.54 |

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QC Summary Report

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|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2410.168871 | 2525.00 | 95.45 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2381.508201 | 2525.00 | 94.32 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 2360.993478 | 2525.00 | 93.50 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 2344.294578 | 2525.00 | 92.84 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 2512.461450 | 2500.00 | 100.50 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 2491.732548 | 2500.00 | 99.67 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 2604.840583 | 2525.00 | 103.16 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 2721.358035 | 2525.00 | 107.78 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 2454.724062 | 2500.00 | 98.19 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 2347.123364 | 2500.00 | 93.88 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 2619.152990 | 2500.00 | 104.77 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 2579.839215 | 2500.00 | 103.19 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 2250.737922 | 2500.00 | 90.03 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 2227.969921 | 2500.00 | 89.12 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 2622.563778 | 2500.00 | 104.90 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 2624.125223 | 2500.00 | 104.97 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 2230.314772 | 2500.00 | 89.21 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 2078.546059 | 2500.00 | 83.14 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 2412.792039 | 2500.00 | 96.51 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 2383.744649 | 2500.00 | 95.35 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 2810.344376 | 2500.00 | 112.41 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 2825.669146 | 2500.00 | 113.03 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 2710.870729 | 2500.00 | 108.43 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 2685.351553 | 2500.00 | 107.41 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 2626.586957 | 2500.00 | 105.06 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 2622.139072 | 2500.00 | 104.89 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 2920.390081 | 2500.00 | 116.82 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 2309.508432 | 2500.00 | 92.38 |

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QC Summary Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1059.358562 | 1010.00 | 104.89 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1086.772026 | 1010.00 | 107.60 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 976.822916 | 1010.00 | 96.72 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 995.317592 | 1010.00 | 98.55 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 1069.554189 | 1000.00 | 106.96 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 1058.850751 | 1000.00 | 105.89 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 1281.900930 | 1010.00 | 126.92 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 1297.422624 | 1010.00 | 128.46 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 978.569909 | 1000.00 | 97.86 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 830.990398 | 1000.00 | 83.10 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 956.205502 | 1000.00 | 95.62 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 1041.438571 | 1000.00 | 104.14 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 921.060702 | 1000.00 | 92.11 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 953.867145 | 1000.00 | 95.39 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 1088.667098 | 1000.00 | 108.87 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 1007.303212 | 1000.00 | 100.73 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 983.285051 | 1000.00 | 98.33 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 990.454562 | 1000.00 | 99.05 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 1067.025318 | 1000.00 | 106.70 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 1009.962489 | 1000.00 | 101.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 1085.765197 | 1000.00 | 108.58 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 1045.021637 | 1000.00 | 104.50 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 1026.812711 | 1000.00 | 102.68 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 990.448044 | 1000.00 | 99.04 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 933.373477 | 1000.00 | 93.34 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 958.170215 | 1000.00 | 95.82 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 1241.703884 | 1000.00 | 124.17 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 1013.491424 | 1000.00 | 101.35 |

QC Summary Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 648.397670 | 505.00 | 128.40 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 649.956832 | 505.00 | 128.70 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 611.127292 | 505.00 | 121.02 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 582.651011 | 505.00 | 115.38 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 493.420225 | 500.00 | 98.68 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 390.058288 | 500.00 | 78.01 |
| ~~PFHxS_1~~ | ~~399.0 / 80.0~~ | ~~2.27~~ | ~~1498.158491~~ | ~~505.00~~ | ~~296.67~~ |
| ~~PFHxS_2~~ | ~~399.0 / 99.0~~ | ~~2.28~~ | ~~1522.368345~~ | ~~505.00~~ | ~~301.46~~ |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 499.617477 | 500.00 | 99.92 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 547.768446 | 500.00 | 109.55 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 483.873003 | 500.00 | 96.77 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 496.056402 | 500.00 | 99.21 |
| ~~PFOS_1~~ | ~~499.0 / 80.0~~ | ~~3.01~~ | ~~1316.064788~~ | ~~500.00~~ | ~~263.21~~ |
| ~~PFOS_2~~ | ~~499.0 / 99.0~~ | ~~3.05~~ | ~~1191.205710~~ | ~~500.00~~ | ~~238.24~~ |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 474.325394 | 500.00 | 94.87 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 523.991734 | 500.00 | 104.80 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 502.954988 | 500.00 | 100.59 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 481.089027 | 500.00 | 96.22 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 491.917014 | 500.00 | 98.38 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 479.411521 | 500.00 | 95.88 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 541.559738 | 500.00 | 108.31 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 547.470720 | 500.00 | 109.49 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 504.446068 | 500.00 | 100.89 |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 504.788689 | 500.00 | 100.96 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 406.187833 | 500.00 | 81.24 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 383.426874 | 500.00 | 76.69 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 616.214889 | 500.00 | 123.24 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 563.121136 | 500.00 | 112.62 |

PFHxS and PFOS were not reported from samples bracketed by this CCV. JRT 10/22/2018

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QC Summary Report

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|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 239.638663 | 250.00 | 95.86 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 226.825591 | 250.00 | 90.73 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 260.821670 | 250.00 | 104.33 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 236.202500 | 250.00 | 94.48 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 261.838604 | 250.00 | 104.74 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 241.132328 | 250.00 | 96.45 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 249.513183 | 250.00 | 99.81 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 244.842268 | 250.00 | 97.94 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 253.534098 | 250.00 | 101.41 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 224.819175 | 250.00 | 89.93 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 221.144947 | 232.25 | 95.22 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 215.873167 | 236.50 | 91.28 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 286.858128 | 239.25 | 119.90 |

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QC Summary Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 248.615061 | 250.00 | 99.45 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 250.699947 | 250.00 | 100.28 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 298.423373 | 250.00 | 119.37 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 233.847798 | 250.00 | 93.54 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 229.151744 | 250.00 | 91.66 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 236.085921 | 250.00 | 94.43 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 223.751713 | 250.00 | 89.50 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 254.184356 | 250.00 | 101.67 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 257.571911 | 250.00 | 103.03 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 241.138789 | 250.00 | 96.46 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 262.775319 | 232.25 | 113.14 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 275.015508 | 236.50 | 116.29 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 271.656963 | 239.25 | 113.55 |

QC Summary Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 246.488852 | 250.00 | 98.60 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 233.924812 | 250.00 | 93.57 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 237.600928 | 250.00 | 95.04 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 231.938396 | 250.00 | 92.78 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 231.216358 | 250.00 | 92.49 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 248.437567 | 250.00 | 99.38 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 225.988136 | 250.00 | 90.40 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 241.837374 | 250.00 | 96.73 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 251.890862 | 250.00 | 100.76 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 235.456016 | 250.00 | 94.18 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 233.311299 | 232.25 | 100.46 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 234.291589 | 236.50 | 99.07 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 226.441505 | 239.25 | 94.65 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 237.146340 | 250.00 | 94.86 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 206.867720 | 250.00 | 82.75 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 223.048618 | 250.00 | 89.22 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 252.985414 | 250.00 | 101.19 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 242.586138 | 250.00 | 97.03 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 254.061868 | 250.00 | 101.62 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 244.008035 | 250.00 | 97.60 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 241.134539 | 250.00 | 96.45 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 262.492099 | 250.00 | 105.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 248.545010 | 250.00 | 99.42 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 237.274012 | 232.25 | 102.16 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 232.591046 | 236.50 | 98.35 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 231.707722 | 239.25 | 96.85 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 258.567053 | 250.00 | 103.43 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 233.989784 | 250.00 | 93.60 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 222.417718 | 250.00 | 88.97 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 236.867127 | 250.00 | 94.75 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 232.092859 | 250.00 | 92.84 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 247.194099 | 250.00 | 98.88 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 234.076291 | 250.00 | 93.63 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 255.898838 | 250.00 | 102.36 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 252.282902 | 250.00 | 100.91 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 238.395725 | 250.00 | 95.36 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 237.966571 | 232.25 | 102.46 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 278.474712 | 236.50 | 117.75 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 270.603464 | 239.25 | 113.10 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 263.564338 | 250.00 | 105.43 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 243.753984 | 250.00 | 97.50 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 303.686684 | 250.00 | 121.47 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 257.213090 | 250.00 | 102.89 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 237.934655 | 250.00 | 95.17 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 226.764512 | 250.00 | 90.71 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 256.566415 | 250.00 | 102.63 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 268.840832 | 250.00 | 107.54 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 274.648977 | 250.00 | 109.86 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 248.068320 | 250.00 | 99.23 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 250.380799 | 232.25 | 107.81 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 233.314578 | 236.50 | 98.65 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 253.380458 | 239.25 | 105.91 |

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QC Summary Report

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 255.579396 | 250.00 | 102.23 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 201.216598 | 250.00 | 80.49 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 276.496069 | 250.00 | 110.60 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 263.991550 | 250.00 | 105.60 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 269.118977 | 250.00 | 107.65 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 273.196694 | 250.00 | 109.28 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 248.665100 | 250.00 | 99.47 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 243.205710 | 250.00 | 97.28 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 268.696727 | 250.00 | 107.48 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 232.749932 | 250.00 | 93.10 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 239.956455 | 232.25 | 103.32 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 240.985514 | 236.50 | 101.90 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 268.225967 | 239.25 | 112.11 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 274.375890 | 250.00 | 109.75 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 245.241725 | 250.00 | 98.10 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 271.123351 | 250.00 | 108.45 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 238.796395 | 250.00 | 95.52 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 227.660422 | 250.00 | 91.06 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 237.993394 | 250.00 | 95.20 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 227.698434 | 250.00 | 91.08 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 250.617215 | 250.00 | 100.25 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 283.871880 | 250.00 | 113.55 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 236.716623 | 250.00 | 94.69 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 271.067665 | 232.25 | 116.71 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 257.652861 | 236.50 | 108.94 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 276.276472 | 239.25 | 115.48 |

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 248.865332 | 250.00 | 99.55 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 263.000532 | 250.00 | 105.20 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 245.482351 | 250.00 | 98.19 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 254.841464 | 250.00 | 101.94 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 232.315391 | 250.00 | 92.93 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 266.759006 | 250.00 | 106.70 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 244.651249 | 250.00 | 97.86 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 239.047951 | 250.00 | 95.62 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 274.622797 | 250.00 | 109.85 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 244.695592 | 250.00 | 97.88 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 241.083383 | 232.25 | 103.80 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 241.543361 | 236.50 | 102.13 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 284.802832 | 239.25 | 119.04 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 249.241041 | 250.00 | 99.70 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 288.432760 | 250.00 | 115.37 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 247.486608 | 250.00 | 98.99 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 266.972428 | 250.00 | 106.79 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 251.043349 | 250.00 | 100.42 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 269.170517 | 250.00 | 107.67 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 250.109701 | 250.00 | 100.04 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 256.134586 | 250.00 | 102.45 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 259.678636 | 250.00 | 103.87 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 234.059454 | 250.00 | 93.62 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 217.180075 | 232.25 | 93.51 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 248.323468 | 236.50 | 105.00 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 265.165696 | 239.25 | 110.83 |

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|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | 903.938722 | 1010.00 | 89.50 |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 861.720770 | 1010.00 | 85.32 |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 965.638096 | 1010.00 | 95.61 |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 1020.663415 | 1010.00 | 101.06 |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 870.096664 | 1000.00 | 87.01 |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 703.985432 | 1000.00 | 70.40 |
| PFHxS_1 | 399.0 / 80.0 | 2.31 | 995.286766 | 1010.00 | 98.54 |
| PFHxS_2 | 399.0 / 99.0 | 2.31 | 987.096947 | 1010.00 | 97.73 |
| PFOA_1 | 413.0 / 369.0 | 2.70 | 944.679231 | 1000.00 | 94.47 |
| PFOA_2 | 413.0 / 169.0 | 2.70 | 928.404131 | 1000.00 | 92.84 |
| PFNA_1 | 463.0 / 419.0 | 3.10 | 925.668029 | 1000.00 | 92.57 |
| PFNA_2 | 463.0 / 219.0 | 3.10 | 916.150436 | 1000.00 | 91.62 |
| PFOS_1 | 499.0 / 80.0 | 3.10 | 915.152388 | 1000.00 | 91.52 |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 974.475969 | 1000.00 | 97.45 |
| PFDA_1 | 513.0 / 469.0 | 3.46 | 1033.203821 | 1000.00 | 103.32 |
| PFDA_2 | 513.0 / 219.0 | 3.46 | 988.892650 | 1000.00 | 98.89 |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | 898.971998 | 1000.00 | 89.90 |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | 864.469912 | 1000.00 | 86.45 |
| PFDoA_1 | 613.0 / 569.0 | 4.07 | 1043.739460 | 1000.00 | 104.37 |
| PFDoA_2 | 613.0 / 319.0 | 4.07 | 997.820905 | 1000.00 | 99.78 |
| PFTrDA_1 | 663.0 / 619.0 | 4.32 | 1091.077999 | 1000.00 | 109.11 |
| PFTrDA_2 | 663.0 / 169.0 | 4.32 | 1012.095559 | 1000.00 | 101.21 |
| PFTeDA_1 | 713.0 / 669.0 | 4.54 | 1017.844307 | 1000.00 | 101.78 |
| PFTeDA_2 | 713.0 / 169.0 | 4.54 | 992.038822 | 1000.00 | 99.20 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.61 | 851.653312 | 1000.00 | 85.17 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.61 | 875.594076 | 1000.00 | 87.56 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | 910.854268 | 1000.00 | 91.09 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | 955.175298 | 1000.00 | 95.52 |

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QC Summary Report

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|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 454.458100 | 505.00 | 89.99 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 442.798963 | 505.00 | 87.68 |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 429.918122 | 505.00 | 85.13 |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 422.319768 | 505.00 | 83.63 |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 457.555994 | 500.00 | 91.51 |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 367.814124 | 500.00 | 73.56 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 488.785701 | 505.00 | 96.79 |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 513.988723 | 505.00 | 101.78 |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 482.128900 | 500.00 | 96.43 |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 409.020606 | 500.00 | 81.80 |
| PFNA_1 | 463.0 / 419.0 | 3.08 | 464.241997 | 500.00 | 92.85 |
| PFNA_2 | 463.0 / 219.0 | 3.08 | 500.044942 | 500.00 | 100.01 |
| PFOS_1 | 499.0 / 80.0 | 3.08 | 496.709318 | 500.00 | 99.34 |
| PFOS_2 | 499.0 / 99.0 | 3.08 | 462.174018 | 500.00 | 92.43 |
| PFDA_1 | 513.0 / 469.0 | 3.44 | 487.965167 | 500.00 | 97.59 |
| PFDA_2 | 513.0 / 219.0 | 3.44 | 450.476544 | 500.00 | 90.10 |
| PFUnA_1 | 563.0 / 519.0 | 3.76 | 512.188016 | 500.00 | 102.44 |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | 515.096313 | 500.00 | 103.02 |
| PFDoA_1 | 613.0 / 569.0 | 4.05 | 468.826466 | 500.00 | 93.77 |
| PFDoA_2 | 613.0 / 319.0 | 4.05 | 496.610461 | 500.00 | 99.32 |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | 494.253752 | 500.00 | 98.85 |
| PFTrDA_2 | 663.0 / 169.0 | 4.29 | 493.783769 | 500.00 | 98.76 |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | 493.670909 | 500.00 | 98.73 |
| PFTeDA_2 | 713.0 / 169.0 | 4.51 | 483.296714 | 500.00 | 96.66 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | 425.937568 | 500.00 | 85.19 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | 405.954805 | 500.00 | 81.19 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.76 | 550.358144 | 500.00 | 110.07 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.76 | 542.708720 | 500.00 | 108.54 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2465.324263 | 2525.00 | 97.64 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2467.752325 | 2525.00 | 97.73 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 2436.956401 | 2525.00 | 96.51 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 2508.198332 | 2525.00 | 99.33 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 2342.778007 | 2500.00 | 93.71 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 2103.663628 | 2500.00 | 84.15 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 2462.413228 | 2525.00 | 97.52 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 2466.046086 | 2525.00 | 97.67 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 2686.268251 | 2500.00 | 107.45 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 2373.700014 | 2500.00 | 94.95 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 2460.453546 | 2500.00 | 98.42 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 2612.355361 | 2500.00 | 104.49 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 2467.751027 | 2500.00 | 98.71 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2510.301179 | 2500.00 | 100.41 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 2677.325341 | 2500.00 | 107.09 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 2588.356354 | 2500.00 | 103.53 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 2562.529333 | 2500.00 | 102.50 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 2236.944764 | 2500.00 | 89.48 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 2586.743500 | 2500.00 | 103.47 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 2707.673865 | 2500.00 | 108.31 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 2662.742055 | 2500.00 | 106.51 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 2606.996833 | 2500.00 | 104.28 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 2488.684916 | 2500.00 | 99.55 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 2458.051614 | 2500.00 | 98.32 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 2563.607494 | 2500.00 | 102.54 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 2492.756812 | 2500.00 | 99.71 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 2285.215047 | 2500.00 | 91.41 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 2164.248624 | 2500.00 | 86.57 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1040.666329 | 1010.00 | 103.04 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1010.137567 | 1010.00 | 100.01 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 947.317948 | 1010.00 | 93.79 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 1023.413105 | 1010.00 | 101.33 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 927.221321 | 1000.00 | 92.72 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 830.915487 | 1000.00 | 83.09 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 964.735655 | 1010.00 | 95.52 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 1005.964150 | 1010.00 | 99.60 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1062.271008 | 1000.00 | 106.23 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 937.636144 | 1000.00 | 93.76 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 991.664335 | 1000.00 | 99.17 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 1036.973735 | 1000.00 | 103.70 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1009.265320 | 1000.00 | 100.93 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 1037.882614 | 1000.00 | 103.79 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 1069.126402 | 1000.00 | 106.91 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 856.739713 | 1000.00 | 85.67 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 1043.350875 | 1000.00 | 104.34 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 1012.843349 | 1000.00 | 101.28 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 1003.417503 | 1000.00 | 100.34 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 1032.488834 | 1000.00 | 103.25 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 1141.795242 | 1000.00 | 114.18 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 1164.137612 | 1000.00 | 116.41 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 1024.715229 | 1000.00 | 102.47 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 1004.777062 | 1000.00 | 100.48 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 937.855676 | 1000.00 | 93.79 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 943.290685 | 1000.00 | 94.33 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 859.279945 | 1000.00 | 85.93 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 733.717143 | 1000.00 | 73.37 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2431.155431 | 2525.00 | 96.28 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2343.937936 | 2525.00 | 92.83 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 2640.893773 | 2525.00 | 104.59 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 2610.943830 | 2525.00 | 103.40 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 2406.955368 | 2500.00 | 96.28 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 2329.545107 | 2500.00 | 93.18 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 2423.702046 | 2525.00 | 95.99 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 2526.927705 | 2525.00 | 100.08 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 2709.935594 | 2500.00 | 108.40 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 2392.995965 | 2500.00 | 95.72 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 2574.478210 | 2500.00 | 102.98 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 2606.921241 | 2500.00 | 104.28 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 2768.712115 | 2500.00 | 110.75 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 2930.213998 | 2500.00 | 117.21 |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 2669.445326 | 2500.00 | 106.78 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 2385.533789 | 2500.00 | 95.42 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 2502.575106 | 2500.00 | 100.10 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 2240.817636 | 2500.00 | 89.63 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 2530.681409 | 2500.00 | 101.23 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 2393.173009 | 2500.00 | 95.73 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 2933.591038 | 2500.00 | 117.34 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 2901.078219 | 2500.00 | 116.04 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 2722.227068 | 2500.00 | 108.89 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 2646.816974 | 2500.00 | 105.87 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 2396.626925 | 2500.00 | 95.87 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 2315.434582 | 2500.00 | 92.62 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 2479.938265 | 2500.00 | 99.20 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 2229.543280 | 2500.00 | 89.18 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.06 | 254.457562 | 250.00 | 101.78 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 257.448822 | 250.00 | 102.98 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.77 | 250.471875 | 250.00 | 100.19 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.86 | 213.460285 | 250.00 | 85.38 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 228.890405 | 250.00 | 91.56 |
| 13C8-PFOA | 421.0 / 376.0 | 2.69 | 219.363629 | 250.00 | 87.75 |
| 13C9-PFNA | 472.0 / 427.0 | 3.09 | 233.795566 | 250.00 | 93.52 |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 253.001410 | 250.00 | 101.20 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.77 | 263.752738 | 250.00 | 105.50 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 239.957460 | 250.00 | 95.98 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 227.789521 | 232.25 | 98.08 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 227.865205 | 236.50 | 96.35 |
| 13C8-PFOS | 507.0 / 99.0 | 3.08 | 239.793976 | 239.25 | 100.23 |

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QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:31:53 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.04 | 232.657064 | 250.00 | 93.06 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.59 | 244.275184 | 250.00 | 97.71 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.75 | 178.985251 | 250.00 | 71.59 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 240.567763 | 250.00 | 96.23 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 232.042323 | 250.00 | 92.82 |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 243.903216 | 250.00 | 97.56 |
| 13C9-PFNA | 472.0 / 427.0 | 3.07 | 230.011678 | 250.00 | 92.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.43 | 240.364169 | 250.00 | 96.15 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.75 | 227.596015 | 250.00 | 91.04 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.51 | 227.469856 | 250.00 | 90.99 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 233.704604 | 232.25 | 100.63 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 266.315932 | 236.50 | 112.61 |
| 13C8-PFOS | 507.0 / 99.0 | 3.07 | 259.417537 | 239.25 | 108.43 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 234.807443 | 250.00 | 93.92 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 208.310798 | 250.00 | 83.32 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 234.899199 | 250.00 | 93.96 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 245.778419 | 250.00 | 98.31 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 240.825555 | 250.00 | 96.33 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 256.906159 | 250.00 | 102.76 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 237.495393 | 250.00 | 95.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 244.134282 | 250.00 | 97.65 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 260.661503 | 250.00 | 104.26 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 239.719947 | 250.00 | 95.89 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 209.133496 | 232.25 | 90.05 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 235.237263 | 236.50 | 99.47 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 226.968009 | 239.25 | 94.87 |

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QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:32:02 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 237.933070 | 250.00 | 95.17 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 231.380924 | 250.00 | 92.55 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 260.717834 | 250.00 | 104.29 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 242.904594 | 250.00 | 97.16 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 237.602895 | 250.00 | 95.04 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 259.947813 | 250.00 | 103.98 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 252.056419 | 250.00 | 100.82 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 229.346610 | 250.00 | 91.74 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 255.092139 | 250.00 | 102.04 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 216.540323 | 250.00 | 86.62 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 193.122450 | 232.25 | 83.15 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 236.065050 | 236.50 | 99.82 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 237.513847 | 239.25 | 99.27 |

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 249.405081 | 250.00 | 99.76 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 216.681572 | 250.00 | 86.67 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 219.384651 | 250.00 | 87.75 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 214.772264 | 250.00 | 85.91 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 205.522403 | 250.00 | 82.21 |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 232.686037 | 250.00 | 93.07 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 232.329196 | 250.00 | 92.93 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 232.316530 | 250.00 | 92.93 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 258.371959 | 250.00 | 103.35 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 210.582761 | 250.00 | 84.23 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 207.449234 | 232.25 | 89.32 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 231.307897 | 236.50 | 97.80 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 210.135614 | 239.25 | 87.83 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:34:56 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 906.626239 | 1000.00 | 90.66 |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 919.881718 | 1000.00 | 91.99 |

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QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:35:01 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1157.277499 | 1000.00 | 115.73 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 1017.064779 | 1000.00 | 101.71 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:35:05 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | 2452.709745 | 2500.00 | 98.11 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2518.048964 | 2500.00 | 100.72 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:34:26 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 222.736043 | 239.25 | 93.10 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:34:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 239.321833 | 239.25 | 100.03 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:34:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 240.153141 | 239.25 | 100.38 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:36:19 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | 1244.646852 | 1000.00 | 124.46 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | 1233.660110 | 1000.00 | 123.37 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:36:23 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | 419.389608 | 500.00 | 83.88 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.81 | 616.043667 | 500.00 | 123.21 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:36:28 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 2783.577886 | 2500.00 | 111.34 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 2600.919157 | 2500.00 | 104.04 |

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QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:36:33 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 1131.047660 | 1000.00 | 113.10 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 1177.183605 | 1000.00 | 117.72 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:35:33 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 176.181506 | 250.00 | 70.47 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:35:38 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.81 | 206.830753 | 250.00 | 82.73 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:35:43 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 189.042658 | 250.00 | 75.62 |

QC Summary Report

Created with Analyst Reporter
Printed: 22/10/2018 12:35:48 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Conc. (ng/L) | Target Conc. (ng/L) | Recovery (%) |
|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 206.043808 | 250.00 | 82.42 |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 322693.95 | 913.867745 | 473.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 96403.40 | 903.813326 | 386.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 259842.82 | 968.776354 | 34.5 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 18760.22 | 924.540974 | 29.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 226134.27 | 817.749195 | 86.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 4452.70 | 723.789535 | 62.2 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 369870.66 | 1000.435431 | 219.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 104927.89 | 987.914601 | 427.0 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 374349.02 | 981.693812 | 246.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 24199.88 | 1017.229982 | 210.4 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 357741.67 | 973.995611 | 328.1 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 106767.88 | 942.209293 | 316.9 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 549625.58 | 725.166869 | 229.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 94372.85 | 706.312779 | 376.1 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 406686.93 | 929.080237 | 369.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 18013.46 | 950.462692 | 334.1 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 420462.77 | 898.766804 | 292.8 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 20880.05 | 851.690188 | 214.6 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 367665.37 | 959.018285 | 374.4 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 58311.28 | 959.418095 | 339.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 329574.36 | 1032.137302 | 623.7 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 22331.74 | 1078.203364 | 384.0 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 347532.04 | 1008.403351 | 1312.9 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 16969.61 | 1005.887135 | 574.0 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 69525.54 | 980.964024 | 557.5 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 38880.26 | 1004.036483 | 323.5 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 72731.73 | 1015.935105 | 646.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 3980.15 | 717.515865 | 288.8 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 843968.39 | 2351.197345 | 974.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 252037.55 | 2332.946979 | 776.7 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 648498.64 | 2434.478801 | 61.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 45469.91 | 2269.281549 | 61.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 584234.08 | 2436.510978 | 166.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 10813.39 | 2155.081049 | 117.7 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 924830.72 | 2286.635467 | 367.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 264642.15 | 2320.336697 | 557.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 920535.78 | 2436.141771 | 385.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 54792.82 | 2299.274615 | 245.2 | false |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 816321.90 | 2492.685719 | 426.5 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 268237.93 | 2666.679808 | 544.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1366355.46 | 2225.382945 | 376.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 235756.78 | 2207.975888 | 921.0 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 993139.37 | 2457.704763 | 464.6 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 40986.79 | 2356.127000 | 471.5 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 1001988.31 | 2302.954249 | 391.0 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 50401.87 | 2291.169516 | 283.0 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 859323.26 | 2404.314711 | 570.0 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 140177.86 | 2491.298992 | 404.5 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 834251.06 | 2722.877329 | 785.3 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 53585.57 | 2714.938263 | 460.8 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 899911.78 | 2743.089468 | 1635.2 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 42940.00 | 2682.707839 | 831.7 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 161608.96 | 2383.185837 | 1040.8 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 91798.13 | 2486.296359 | 882.4 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 168967.01 | 2503.355120 | 656.8 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 10934.94 | 2001.000089 | 679.8 | false |

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Summary Quant Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 366912.58 | 1016.912778 | 552.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 106592.13 | 978.444073 | 359.0 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 278185.26 | 985.208640 | 40.5 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 21941.08 | 1028.950271 | 41.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 257253.87 | 987.027338 | 97.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 5718.59 | 1015.111015 | 74.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 402816.64 | 1026.364175 | 317.0 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 114795.78 | 1019.176624 | 512.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 384502.54 | 913.111804 | 243.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 23964.12 | 914.452582 | 216.1 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 372332.91 | 1045.508918 | 314.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 107744.27 | 980.161168 | 366.6 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 641444.08 | 1119.844092 | 245.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 112579.81 | 1123.071523 | 475.8 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 444463.79 | 1050.092836 | 510.2 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 18446.13 | 1004.819213 | 278.7 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 427977.67 | 936.154016 | 282.5 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 22462.38 | 942.260274 | 204.3 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 371640.27 | 958.474922 | 379.3 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 64562.38 | 1053.412529 | 355.6 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 346543.48 | 1054.529453 | 616.7 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 22433.21 | 1050.656268 | 325.5 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 367569.35 | 1036.843311 | 958.8 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 17985.81 | 1036.703908 | 634.0 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 72290.76 | 976.439216 | 483.7 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 39137.96 | 966.420500 | 287.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 74065.74 | 1174.207413 | 686.2 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 4597.10 | 928.962838 | 264.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 919711.92 | 2400.012537 | 938.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 271198.84 | 2351.440303 | 788.0 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 697244.32 | 2343.622905 | 62.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 50433.13 | 2253.847020 | 60.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 640310.08 | 2443.827051 | 164.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 14150.36 | 2599.308075 | 157.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1016199.43 | 2481.124671 | 651.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 293423.96 | 2543.679180 | 1129.0 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 999147.94 | 2380.536459 | 402.5 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 59651.34 | 2253.954765 | 296.5 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 895687.52 | 2429.118494 | 517.1 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 279942.72 | 2470.319886 | 451.0 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1590183.99 | 2536.260259 | 322.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 279203.15 | 2562.875999 | 559.0 | true |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 1080215.89 | 2555.816087 | 812.8 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 48901.83 | 2693.029159 | 361.1 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 1126828.68 | 2303.706627 | 442.5 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 57923.09 | 2343.077789 | 271.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 1002497.58 | 2667.956889 | 548.2 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 158269.42 | 2675.502395 | 541.7 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 892658.84 | 2560.590554 | 828.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 59284.43 | 2640.444666 | 491.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 931413.22 | 2493.140172 | 1464.4 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 45564.06 | 2500.338130 | 784.3 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 183857.77 | 2782.818830 | 778.1 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 100068.29 | 2781.179673 | 1038.3 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 174120.72 | 2818.311982 | 841.2 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 11067.63 | 2206.205069 | 296.0 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 382645.02 | 1020.277118 | 480.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 109350.59 | 965.607723 | 362.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 286811.07 | 998.055732 | 39.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 19936.19 | 916.619390 | 37.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 264853.99 | 1016.380512 | 91.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 5493.53 | 970.994717 | 77.0 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 457500.99 | 948.650740 | 307.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 127286.78 | 916.301209 | 575.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 419608.19 | 1004.281602 | 269.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 25716.80 | 987.473532 | 209.8 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 380611.18 | 1035.038623 | 341.5 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 111882.65 | 986.082838 | 384.9 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 748641.26 | 1057.831700 | 158.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 135591.29 | 1094.217757 | 302.5 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 450079.61 | 999.800476 | 502.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 18691.69 | 956.727255 | 217.7 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 468331.28 | 1018.667678 | 316.0 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 24555.57 | 1028.728814 | 238.3 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 416390.45 | 1021.629546 | 398.4 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 65502.04 | 1014.164939 | 359.9 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 367406.82 | 1101.782359 | 612.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 24632.86 | 1139.247370 | 367.7 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 391963.92 | 1090.397918 | 1207.9 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 18435.00 | 1046.339010 | 711.9 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 70913.32 | 981.456872 | 401.1 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 40664.24 | 1030.953758 | 388.0 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 79598.11 | 1297.357365 | 609.8 | true |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 4923.55 | 1017.356744 | 339.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 923079.51 | 2461.929971 | 824.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 276786.89 | 2453.058863 | 673.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 652633.36 | 2233.046653 | 64.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 49741.15 | 2263.320287 | 74.3 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 614160.65 | 2474.137751 | 177.3 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 12879.66 | 2493.250971 | 123.0 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1015103.25 | 2660.622814 | 388.5 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 301527.72 | 2809.630365 | 603.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 971889.02 | 2684.831798 | 356.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 63320.36 | 2768.966499 | 287.9 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 852264.47 | 2274.014766 | 524.8 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 272786.44 | 2368.685481 | 545.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1581064.64 | 2527.300153 | 379.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 264880.75 | 2436.349268 | 638.9 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 1058833.55 | 2551.976671 | 644.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 42818.09 | 2396.764682 | 339.9 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 1077958.11 | 2391.838319 | 423.5 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 52555.60 | 2306.984981 | 375.3 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 979539.94 | 2663.894823 | 541.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 149390.95 | 2579.545325 | 480.0 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 822530.47 | 2686.294912 | 933.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 55236.77 | 2802.203054 | 471.9 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 868516.05 | 2647.988066 | 1790.5 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 43466.65 | 2718.342739 | 931.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 187811.60 | 2625.542853 | 994.2 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 94666.51 | 2427.204419 | 792.5 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 175974.82 | 2302.129775 | 990.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 10817.71 | 1753.186392 | 291.4 | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 354189.01 | 1037.917238 | 557.1 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 108716.69 | 1055.576148 | 513.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 261703.47 | 965.691722 | 39.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 18633.73 | 908.600477 | 39.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 243491.30 | 951.246134 | 97.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 5207.17 | 935.211723 | 72.6 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 436556.29 | 1216.866520 | 266.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 129533.28 | 1266.043408 | 356.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 406846.26 | 1041.367024 | 234.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 24961.17 | 1024.256776 | 209.3 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 344171.17 | 1041.688606 | 318.7 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 104302.78 | 1024.043143 | 425.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 611792.14 | 991.332759 | 212.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 109105.16 | 1008.655776 | 529.5 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 412153.44 | 1043.776519 | 415.8 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 19704.27 | 1157.879018 | 242.6 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 429480.54 | 949.438102 | 343.6 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 21846.83 | 925.567888 | 278.0 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 382494.76 | 1027.300053 | 380.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 59367.11 | 1005.811400 | 409.5 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 346152.68 | 1151.626302 | 652.7 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 21495.63 | 1100.145247 | 317.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 354563.32 | 1093.109833 | 1143.7 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 17337.60 | 1092.502216 | 546.6 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 71675.79 | 1274.683389 | 652.1 | true |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 39184.99 | 1276.304863 | 425.3 | true |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 73057.02 | 1090.987560 | 557.3 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 4526.23 | 865.372604 | 1135.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1151050.28 | 2410.168871 | 1027.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 342295.98 | 2381.508201 | 646.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 830997.32 | 2360.993478 | 73.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 62042.90 | 2344.294578 | 73.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 774141.30 | 2512.461450 | 190.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 15979.81 | 2491.732548 | 199.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1289803.29 | 2604.840583 | 439.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 379185.41 | 2721.358035 | 808.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1209764.71 | 2454.724062 | 525.0 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 72965.96 | 2347.123364 | 370.2 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 1128784.87 | 2619.152990 | 511.1 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 341778.97 | 2579.839215 | 676.5 | false |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 1797886.38 | 2250.737922 | 281.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 309477.96 | 2227.969921 | 625.9 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 1312067.23 | 2622.563778 | 649.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 56451.78 | 2624.125223 | 361.6 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 1344033.48 | 2230.314772 | 499.7 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 63457.08 | 2078.546059 | 346.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 1196132.29 | 2412.792039 | 608.4 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 186154.64 | 2383.744649 | 650.8 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 1062013.45 | 2810.344376 | 870.2 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 68766.78 | 2825.669146 | 543.2 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 1097484.25 | 2710.870729 | 1333.9 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 53031.40 | 2685.351553 | 850.3 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 222816.14 | 2626.586957 | 1173.7 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 121156.17 | 2622.139072 | 741.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 229939.61 | 2920.390081 | 894.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 14779.45 | 2309.508432 | 599.7 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 364090.19 | 1059.358562 | 556.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 112713.28 | 1086.772026 | 384.0 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 276132.86 | 976.822916 | 38.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 21258.74 | 995.317592 | 42.7 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 254750.07 | 1069.554189 | 98.4 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 5441.48 | 1058.850751 | 82.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 468159.78 | 1281.900930 | 238.6 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 135071.27 | 1297.422624 | 341.0 | true |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 403283.53 | 978.569909 | 265.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 21242.95 | 830.990398 | 196.3 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 336565.39 | 956.205502 | 332.3 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 112732.04 | 1041.438571 | 395.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 611775.22 | 921.060702 | 198.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 111151.25 | 953.867145 | 438.2 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 422721.86 | 1088.667098 | 348.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 16982.38 | 1007.303212 | 230.9 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 455570.75 | 983.285051 | 303.6 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 23868.72 | 990.454562 | 204.1 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 387268.04 | 1067.025318 | 393.9 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 58146.38 | 1009.962489 | 384.9 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 344279.01 | 1085.765197 | 637.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 21551.58 | 1045.021637 | 357.1 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 351649.21 | 1026.812711 | 965.0 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 16627.91 | 990.448044 | 670.4 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 69940.46 | 933.373477 | 519.3 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 39235.40 | 958.170215 | 478.7 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 73265.81 | 1241.703884 | 493.9 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 4709.81 | 1013.491424 | 384.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 200050.33 | 648.397670 | 465.0 | true |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 60714.70 | 649.956832 | 331.9 | true |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 180747.31 | 611.127292 | 24.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13111.23 | 582.651011 | 24.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 129180.11 | 493.420225 | 69.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 2451.41 | 390.058288 | 54.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 539142.75 | 1498.158491 | 252.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 155608.67 | 1522.368345 | 293.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 205255.82 | 499.617477 | 167.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13806.21 | 547.768446 | 148.3 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 176985.97 | 483.873003 | 237.2 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 56097.37 | 496.056402 | 322.0 | false |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 818508.42 | 1316.064788 | 178.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 129497.15 | 1191.205710 | 272.3 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 209078.62 | 474.325394 | 243.7 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 10033.36 | 523.991734 | 213.2 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 222336.32 | 502.954988 | 251.5 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 11635.21 | 481.089027 | 122.8 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 186010.04 | 491.917014 | 320.2 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 29071.73 | 479.411521 | 296.6 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 171539.53 | 541.559738 | 502.3 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 11395.97 | 547.470720 | 252.3 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 174882.36 | 504.446068 | 675.1 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 8610.24 | 504.788689 | 532.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 34190.40 | 406.187833 | 651.4 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 17877.98 | 383.426874 | 267.7 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 37550.05 | 616.214889 | 428.4 | true |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 2568.62 | 563.121136 | 57417.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 103320.18 | 239.638663 | 796.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16623.27 | 226.825591 | 183.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 20469.13 | 260.821670 | 249.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 62937.71 | 236.202500 | 656.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 77653.50 | 261.838604 | 527.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 90774.16 | 241.132328 | 945.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 98696.41 | 249.513183 | 881.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 107873.05 | 244.842268 | 946.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 105183.66 | 253.534098 | 1019.3 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 78779.09 | 224.819175 | 1878.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 28378.19 | 221.144947 | 604.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 25235.51 | 215.873167 | 353.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 34393.18 | 286.858128 | 263.8 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:37:06 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 97623.12 | 248.615061 | 625.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 15718.90 | 250.699947 | 158.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 20036.98 | 298.423373 | 239.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 62852.57 | 233.847798 | 591.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 68551.00 | 229.151744 | 747.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 89647.91 | 236.085921 | 1040.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 89276.57 | 223.751713 | 868.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 101993.47 | 254.184356 | 724.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 97321.18 | 257.571911 | 835.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 76955.85 | 241.138789 | 1449.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 28849.34 | 262.775319 | 615.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 27505.16 | 275.015508 | 361.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 27865.68 | 271.656963 | 212.5 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:37:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 104495.09 | 246.488852 | 1146.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 16604.16 | 233.924812 | 183.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 18060.10 | 237.600928 | 206.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 66266.78 | 231.938396 | 667.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 73526.29 | 231.216358 | 540.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 100281.50 | 248.437567 | 1446.3 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 95849.59 | 225.988136 | 853.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 104765.99 | 241.837374 | 710.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 102753.03 | 251.890862 | 672.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 81125.57 | 235.456016 | 1426.6 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 28997.44 | 233.311299 | 459.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 26526.89 | 234.291589 | 315.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 26295.26 | 226.441505 | 225.7 | false |

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Summary Quant Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 102725.16 | 237.146340 | 713.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 15335.45 | 206.867720 | 159.9 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 17706.58 | 223.048618 | 178.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 70186.83 | 252.985414 | 545.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 74907.80 | 242.586138 | 637.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 99581.80 | 254.061868 | 1193.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 100495.28 | 244.008035 | 1045.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 106737.77 | 241.134539 | 858.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 109410.82 | 262.492099 | 596.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 87501.36 | 248.545010 | 1967.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 30799.06 | 237.274012 | 830.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 27503.37 | 232.591046 | 364.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 28101.22 | 231.707722 | 200.0 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 109991.03 | 258.567053 | 701.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16926.08 | 233.989784 | 198.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 17229.01 | 222.417718 | 184.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 67449.90 | 236.867127 | 647.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 73559.57 | 232.092859 | 802.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 99447.75 | 247.194099 | 1313.9 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 98949.90 | 234.076291 | 940.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 111237.37 | 255.898838 | 2196.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 103265.56 | 252.282902 | 527.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 82419.86 | 238.395725 | 1427.7 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 30141.08 | 237.966571 | 1327.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 32131.75 | 278.474712 | 359.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 32023.86 | 270.603464 | 214.5 | false |

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Summary Quant Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 100524.52 | 263.564338 | 1169.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16754.45 | 243.753984 | 170.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 22352.99 | 303.686684 | 217.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 68936.33 | 257.213090 | 660.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 70976.36 | 237.934655 | 522.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 85863.89 | 226.764512 | 1226.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 102078.98 | 256.566415 | 977.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 104780.12 | 268.840832 | 1010.2 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 100796.86 | 274.648977 | 919.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 76896.40 | 248.068320 | 1532.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 30134.42 | 250.380799 | 639.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 25580.52 | 233.314578 | 397.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 28492.62 | 253.380458 | 204.0 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 100491.22 | 255.579396 | 928.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13134.15 | 201.216598 | 203.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19326.73 | 276.496069 | 236.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 63589.01 | 263.991550 | 691.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 72150.15 | 269.118977 | 734.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 92971.07 | 273.196694 | 823.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 88917.71 | 248.665100 | 748.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 97717.95 | 243.205710 | 705.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 101659.57 | 268.696727 | 673.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 74377.43 | 232.749932 | 1593.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 27425.45 | 239.956455 | 462.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 25091.00 | 240.985514 | 358.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 28643.07 | 268.225967 | 220.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 135413.02 | 274.375890 | 888.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19832.58 | 245.241725 | 216.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 23479.19 | 271.123351 | 205.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 83037.71 | 238.796395 | 636.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 88112.20 | 227.660422 | 789.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 116921.09 | 237.993394 | 215.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 117540.90 | 227.698434 | 835.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 126393.19 | 250.617215 | 1065.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 134809.49 | 283.871880 | 599.3 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 94949.47 | 236.716623 | 1716.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 38383.63 | 271.067665 | 746.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 33236.02 | 257.652861 | 294.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 36551.87 | 276.276472 | 297.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 98032.98 | 248.865332 | 847.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 17208.94 | 263.000532 | 226.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 17200.82 | 245.482351 | 184.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 66337.44 | 254.841464 | 546.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 67308.13 | 232.315391 | 528.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 98104.30 | 266.759006 | 1472.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 94540.40 | 244.651249 | 814.6 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 96225.71 | 239.047951 | 718.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 104094.55 | 274.622797 | 962.8 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 78339.95 | 244.695592 | 1290.7 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 27621.55 | 241.083383 | 565.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 25210.51 | 241.543361 | 352.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 30487.55 | 284.802832 | 260.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 99805.43 | 249.241041 | 670.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 18806.23 | 288.432760 | 274.9 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 17279.86 | 247.486608 | 195.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 69031.50 | 266.972428 | 595.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 72248.78 | 251.043349 | 622.8 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 98330.61 | 269.170517 | 1353.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 96004.78 | 250.109701 | 935.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 104809.62 | 256.134586 | 951.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 100058.61 | 259.678636 | 757.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 76174.59 | 234.059454 | 1834.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 24794.80 | 217.180075 | 682.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 25826.41 | 248.323468 | 366.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 28284.95 | 265.165696 | 254.0 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | 338749.26 | 903.938722 | 495.6 | false |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 96580.99 | 861.720770 | 412.4 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 260387.48 | 965.638096 | 70.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 19955.31 | 1020.663415 | 50.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 248902.55 | 870.096664 | 173.3 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 4258.51 | 703.985432 | 99.5 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.31 | 380451.85 | 995.286766 | 290.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.31 | 106470.82 | 987.096947 | 448.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.70 | 339192.24 | 944.679231 | 280.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.70 | 21817.35 | 928.404131 | 204.1 | false |
| PFNA_1 | 463.0 / 419.0 | 3.10 | 341970.55 | 925.668029 | 308.7 | false |
| PFNA_2 | 463.0 / 219.0 | 3.10 | 102698.67 | 916.150436 | 351.7 | false |
| PFOS_1 | 499.0 / 80.0 | 3.10 | 512238.44 | 915.152388 | 200.5 | false |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 94847.93 | 974.475969 | 521.8 | false |
| PFDA_1 | 513.0 / 469.0 | 3.46 | 392759.56 | 1033.203821 | 418.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.46 | 16453.04 | 988.892650 | 206.8 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | 351905.51 | 898.971998 | 279.3 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | 17694.87 | 864.469912 | 197.7 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.07 | 371562.61 | 1043.739460 | 378.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.07 | 56247.00 | 997.820905 | 384.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.32 | 324662.44 | 1091.077999 | 567.9 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.32 | 19740.99 | 1012.095559 | 304.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.54 | 350243.66 | 1017.844307 | 1136.5 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.54 | 16592.01 | 992.038822 | 632.9 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.61 | 60400.71 | 851.653312 | 647.9 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.61 | 34029.15 | 875.594076 | 337.4 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | 61089.68 | 910.854268 | 498.5 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | 4041.33 | 955.175298 | 139.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 151760.14 | 454.458100 | 307.4 | false |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 44720.31 | 442.798963 | 146.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 113628.16 | 429.918122 | 16.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 7847.42 | 422.319768 | 9.7 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 111969.51 | 457.555994 | 64.4 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 1997.37 | 367.814124 | 51.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 173145.71 | 488.785701 | 203.5 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 51638.57 | 513.988723 | 258.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 161746.16 | 482.128900 | 189.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 9453.85 | 409.020606 | 113.3 | false |
| PFNA_1 | 463.0 / 419.0 | 3.08 | 143237.09 | 464.241997 | 232.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.08 | 46323.12 | 500.044942 | 213.4 | false |
| PFOS_1 | 499.0 / 80.0 | 3.08 | 265564.72 | 496.709318 | 189.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.08 | 42858.10 | 462.174018 | 265.4 | false |
| PFDA_1 | 513.0 / 469.0 | 3.44 | 173566.31 | 487.965167 | 252.9 | false |
| PFDA_2 | 513.0 / 219.0 | 3.44 | 7182.04 | 450.476544 | 213.8 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.76 | 162370.01 | 512.188016 | 213.1 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | 8802.98 | 515.096313 | 174.0 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.05 | 149007.54 | 468.826466 | 312.9 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.05 | 25004.04 | 496.610461 | 278.7 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | 133535.66 | 494.253752 | 411.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.29 | 8878.98 | 493.783769 | 263.5 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | 156182.05 | 493.670909 | 950.1 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.51 | 7476.70 | 483.296714 | 426.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | 24299.80 | 425.937568 | 370.8 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | 12562.45 | 405.954805 | 276.3 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.76 | 22959.75 | 550.358144 | 400.5 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.76 | 1453.10 | 542.708720 | 375.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 729502.91 | 2465.324263 | 649.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 216473.20 | 2467.752325 | 446.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 539355.64 | 2436.956401 | 48.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 41003.74 | 2508.198332 | 35.3 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 506565.19 | 2342.778007 | 133.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 9239.13 | 2103.663628 | 133.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 833860.32 | 2462.413228 | 346.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 234617.58 | 2466.046086 | 515.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 814571.71 | 2686.268251 | 361.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 46162.83 | 2373.700014 | 332.6 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 662421.97 | 2460.453546 | 480.9 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 213837.24 | 2612.355361 | 449.3 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1196722.99 | 2467.751027 | 321.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 212369.84 | 2510.301179 | 392.9 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 822187.30 | 2677.325341 | 639.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 34382.42 | 2588.356354 | 391.7 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 851870.17 | 2562.529333 | 448.1 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 37774.15 | 2236.944764 | 340.1 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 717182.07 | 2586.743500 | 536.2 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 118054.15 | 2707.673865 | 405.5 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 674658.69 | 2662.742055 | 931.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 42787.46 | 2606.996833 | 446.8 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 722558.25 | 2488.684916 | 1208.2 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 34547.46 | 2458.051614 | 773.5 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 123571.58 | 2563.607494 | 1093.8 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 66478.86 | 2492.756812 | 719.0 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 124971.81 | 2285.215047 | 695.9 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 7362.26 | 2164.248624 | 209.9 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:40:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 283171.38 | 1040.666329 | 389.4 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 82027.37 | 1010.137567 | 253.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 211859.07 | 947.317948 | 27.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 16575.96 | 1023.413105 | 19.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 199955.02 | 927.221321 | 88.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 3742.69 | 830.915487 | 66.8 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 330925.47 | 964.735655 | 231.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 97297.66 | 1005.964150 | 327.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 327821.62 | 1062.271008 | 303.8 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 18997.24 | 937.636144 | 247.0 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 286722.95 | 991.664335 | 328.5 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 90828.19 | 1036.973735 | 303.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 493528.79 | 1009.265320 | 253.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 88310.93 | 1037.882614 | 418.1 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 327816.62 | 1069.126402 | 420.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 11636.65 | 856.739713 | 172.6 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 351709.30 | 1043.350875 | 282.3 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 17729.64 | 1012.843349 | 193.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 298148.22 | 1003.417503 | 326.6 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 48429.56 | 1032.488834 | 340.5 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 273000.57 | 1141.795242 | 646.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 18167.54 | 1164.137612 | 303.3 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 283532.71 | 1024.715229 | 1330.0 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13508.92 | 1004.777062 | 515.1 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 47418.37 | 937.855676 | 566.6 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 26178.16 | 943.290685 | 347.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 50243.77 | 859.279945 | 468.0 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 2718.82 | 733.717143 | 834.0 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:40:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 744317.30 | 2431.155431 | 699.6 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 212839.10 | 2343.937936 | 528.9 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 564000.53 | 2640.893773 | 54.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 41241.92 | 2610.943830 | 40.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 491104.91 | 2406.955368 | 129.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 9626.14 | 2329.545107 | 120.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 827582.12 | 2423.702046 | 454.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 242346.42 | 2526.927705 | 663.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 823218.16 | 2709.935594 | 446.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 46615.79 | 2392.995965 | 309.7 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 749480.13 | 2574.478210 | 520.3 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 230922.91 | 2606.921241 | 478.0 | false |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 1247313.44 | 2768.712115 | 332.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 230313.84 | 2930.213998 | 861.7 | false |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 829318.07 | 2669.445326 | 561.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 32128.90 | 2385.533789 | 384.4 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 876679.69 | 2502.575106 | 497.9 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 39870.54 | 2240.817636 | 313.2 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 792520.55 | 2530.681409 | 522.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 118088.40 | 2393.173009 | 495.5 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 693530.13 | 2933.591038 | 819.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 44392.22 | 2901.078219 | 443.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 737097.52 | 2722.227068 | 1209.7 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 34695.03 | 2646.816974 | 845.2 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 123768.33 | 2396.626925 | 730.6 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 66140.76 | 2315.434582 | 515.5 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 130792.55 | 2479.938265 | 787.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 7310.56 | 2229.543280 | 479.0 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:39:15 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.06 | 94777.21 | 254.457562 | 667.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 15824.70 | 257.448822 | 174.9 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.77 | 16691.67 | 250.471875 | 268.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.86 | 64623.54 | 213.460285 | 551.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 78532.71 | 228.890405 | 926.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.69 | 89341.23 | 219.363629 | 25485.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.09 | 101923.17 | 233.795566 | 1607.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 95291.86 | 253.001410 | 1540.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.77 | 92564.48 | 263.752738 | 891.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 75318.87 | 239.957460 | 1630.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 29931.35 | 227.789521 | 501.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 24692.80 | 227.865205 | 378.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.08 | 30028.15 | 239.793976 | 246.4 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:39:20 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.04 | 80879.36 | 232.657064 | 867.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.59 | 12815.73 | 244.275184 | 205.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.75 | 10180.69 | 178.985251 | 135.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 59261.67 | 240.567763 | 1073.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 64781.80 | 232.042323 | 789.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 80829.08 | 243.903216 | 1193.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.07 | 81592.33 | 230.011678 | 938.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.43 | 84495.88 | 240.364169 | 769.9 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.75 | 74549.54 | 227.596015 | 578.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.51 | 66638.67 | 227.469856 | 1556.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 26210.74 | 233.704604 | 429.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 24632.52 | 266.315932 | 341.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.07 | 27727.39 | 259.417537 | 209.2 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:39:25 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 75511.90 | 234.807443 | 1067.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 11137.79 | 208.310798 | 111.3 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13616.48 | 234.899199 | 201.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 54871.18 | 245.778419 | 582.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 60932.99 | 240.825555 | 555.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 77159.38 | 256.906159 | 1044.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 76351.70 | 237.495393 | 1363.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 79391.98 | 244.134282 | 8591.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 78984.03 | 260.661503 | 770.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 64966.39 | 239.719947 | 1537.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 23903.34 | 209.133496 | 379.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 22173.84 | 235.237263 | 251.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 24722.79 | 226.968009 | 197.2 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:39:31 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 78987.30 | 237.933070 | 907.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 12209.21 | 231.380924 | 181.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 14915.12 | 260.717834 | 245.9 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 53539.29 | 242.904594 | 568.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 59352.35 | 237.602895 | 786.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 77079.11 | 259.947813 | 1097.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 80001.40 | 252.056419 | 861.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 76990.85 | 229.346610 | 562.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 79791.82 | 255.092139 | 518.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 60579.02 | 216.540323 | 1137.6 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 21784.15 | 193.122450 | 416.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 21960.35 | 236.065050 | 231.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 25532.57 | 237.513847 | 218.7 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:39:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 85263.42 | 249.405081 | 855.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 12082.95 | 216.681572 | 175.9 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13263.35 | 219.384651 | 192.9 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 53040.25 | 214.772264 | 492.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 57522.25 | 205.522403 | 745.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 77305.66 | 232.686037 | 772.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 82621.70 | 232.329196 | 849.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 80312.27 | 232.316530 | 761.9 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 83226.51 | 258.371959 | 545.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 60668.23 | 210.582761 | 1351.2 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 24729.24 | 207.449234 | 522.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 22739.93 | 231.307897 | 308.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 23872.42 | 210.135614 | 240.1 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:41:07 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 539708.03 | 906.626239 | 343.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 95211.86 | 919.881718 | 450.1 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:41:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | 602374.00 | 1157.277499 | 328.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 92010.47 | 1017.064779 | 444.2 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:41:18 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | 1200187.15 | 2452.709745 | 507.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 214027.97 | 2518.048964 | 521.0 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:40:37 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 29875.11 | 222.736043 | 244.5 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:40:42 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 25641.77 | 239.321833 | 293.3 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:40:50 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 24153.14 | 240.153141 | 273.5 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:42:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | 66942.43 | 1244.646852 | 673.7 | true |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | 4011.16 | 1233.660110 | 1226.3 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:42:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | 25050.06 | 419.389608 | 464.9 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.81 | 2285.31 | 616.043667 | 3911.2 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:42:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 136724.20 | 2783.577886 | 876.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 7569.57 | 2600.919157 | 519.9 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:42:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 63203.22 | 1131.047660 | 782.3 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 3981.73 | 1177.183605 | 295.3 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:41:37 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 14383.26 | 176.181506 | 200.6 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:41:42 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.81 | 15593.14 | 206.830753 | 180.2 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:41:46 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13682.22 | 189.042658 | 220.8 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:41:51 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 15281.43 | 206.043808 | 221.5 | false |

BATTELLE

Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:42:47 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.300 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.560 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.050 | 0.067 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:42:51 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.07 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.330 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.570 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.290 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.170 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.540 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.310 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.540 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:43:05 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.290 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.570 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.320 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.150 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.500 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.300 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.550 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.300 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.05 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.540 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.330 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.05 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.150 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.560 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.320 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.01 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.520 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.070 | 0.067 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:43:53 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.55 | PFBS | 0.290 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | PFHxA | 0.080 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.31 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.31 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.70 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.70 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.10 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.10 | PFNA | 0.300 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.10 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.10 | PFOS | 0.190 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.46 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.46 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.07 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.07 | PFDoA | 0.150 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.32 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.32 | PFTrDA | 0.060 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.54 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.54 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.61 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.61 | NMeFOSAA | 0.560 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | NEtFOSAA | 0.070 | 0.065 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.290 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | PFHxA | 0.070 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | PFHxS | 0.300 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.68 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.68 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.08 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.08 | PFNA | 0.320 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.08 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.08 | PFOS | 0.160 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.44 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.44 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.76 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.05 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.05 | PFDoA | 0.170 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.29 | PFTrDA | 0.070 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.51 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | NMeFOSAA | 0.520 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.76 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.76 | NEtFOSAA | 0.060 | 0.065 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:44:07 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.080 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.320 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.040 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.060 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.540 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.065 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.290 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.080 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.320 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.180 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.550 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.050 | 0.065 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.290 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.060 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.310 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.05 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.180 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.40 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.150 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.060 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.530 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.060 | 0.065 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.10 | PFOS | 0.180 | 0.174 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.174 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:44:44 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.174 | ü |

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Summary Ion Ratio Report



| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | NEtFOSAA | 0.060 | 0.062 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:45:05 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.81 | NEtFOSAA | 0.090 | 0.062 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:45:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.062 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 12:45:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.062 | ü |

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Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:46:54 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 28378.19 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 28378.19 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 62937.71 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 62937.71 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 77653.50 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 77653.50 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 24837.46 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 24837.46 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 90774.16 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 90774.16 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 98696.41 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 98696.41 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 35243.22 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 35243.22 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 107873.05 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 107873.05 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 105183.66 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 105183.66 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 103320.18 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 103320.18 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 78779.09 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 78779.09 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 13C2-PFTeDA | 715.0 / 670.0 | 78779.09 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 78779.09 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 16596.91 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 16596.91 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 20587.23 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 20587.23 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 28849.34 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 28849.34 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 62852.57 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 62852.57 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 68551.00 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 68551.00 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27279.03 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27279.03 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 89647.91 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 89647.91 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 89276.57 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 89276.57 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28396.26 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28396.26 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 101993.47 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 101993.47 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 97321.18 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 97321.18 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 97623.12 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 97623.12 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 76955.85 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 76955.85 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 76955.85 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 76955.85 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 16144.79 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 16144.79 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 19891.67 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 19891.67 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 28997.44 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 28997.44 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 66266.78 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 66266.78 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 73526.29 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 73526.29 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 26371.16 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 26371.16 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 100281.50 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 100281.50 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 95849.59 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 95849.59 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26559.54 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26559.54 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 104765.99 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 104765.99 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 102753.03 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 102753.03 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 104495.09 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 104495.09 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 81125.57 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 81125.57 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 81125.57 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 81125.57 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 17334.74 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 17334.74 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 18239.21 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 18239.21 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 30799.06 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 30799.06 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 70186.83 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 70186.83 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 74907.80 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 74907.80 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27631.15 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27631.15 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 99581.80 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 99581.80 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 100495.28 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 100495.28 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28987.93 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28987.93 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 106737.77 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 106737.77 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 109410.82 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 109410.82 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 102725.16 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 102725.16 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 87501.36 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 87501.36 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 87501.36 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 87501.36 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 15756.18 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 15756.18 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 18242.20 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 18242.20 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 30141.08 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 30141.08 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 67449.90 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 67449.90 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 73559.57 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 73559.57 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 32386.63 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 32386.63 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 99447.75 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 99447.75 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 98949.90 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 98949.90 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 32825.29 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 32825.29 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 111237.37 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 111237.37 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 103265.56 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 103265.56 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 109991.03 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 109991.03 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 82419.86 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 82419.86 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 82419.86 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 82419.86 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 16919.93 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 16919.93 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 17800.89 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 17800.89 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 30134.42 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 30134.42 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 68936.33 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 68936.33 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 70976.36 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 70976.36 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 25744.16 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 25744.16 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 85863.89 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 85863.89 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 102078.98 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 102078.98 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28924.11 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28924.11 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 104780.12 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 104780.12 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 100796.86 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 100796.86 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 100524.52 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 100524.52 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 76896.40 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 76896.40 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 76896.40 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 76896.40 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 17048.91 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 17048.91 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 22494.13 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 22494.13 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 27425.45 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 27425.45 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 63589.01 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 63589.01 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 72150.15 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 72150.15 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 24131.59 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 24131.59 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 92971.07 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 92971.07 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 88917.71 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 88917.71 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28634.91 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28634.91 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 97717.95 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 97717.95 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 101659.57 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 101659.57 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 100491.22 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 100491.22 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 74377.43 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 74377.43 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 74377.43 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 74377.43 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 13252.79 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 13252.79 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 19310.88 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 19310.88 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38383.63 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38383.63 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 83037.71 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 83037.71 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 88112.20 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 88112.20 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 33409.46 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 33409.46 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 116921.09 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 116921.09 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 117540.90 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 117540.90 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 36942.54 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 36942.54 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 126393.19 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 126393.19 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 134809.49 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 134809.49 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 135413.02 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 135413.02 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 94949.47 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 94949.47 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 94949.47 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 94949.47 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 20218.55 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 20218.55 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 23260.43 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 23260.43 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 27621.55 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 27621.55 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 66337.44 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 66337.44 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 67308.13 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 67308.13 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 24572.85 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 24572.85 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 98104.30 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 98104.30 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 94540.40 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 94540.40 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 30832.54 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 30832.54 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 96225.71 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 96225.71 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 104094.55 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 104094.55 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 98032.98 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 98032.98 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 78339.95 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 78339.95 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 78339.95 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 78339.95 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 17522.31 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 17522.31 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 17094.45 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 17094.45 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 24794.80 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 24794.80 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 69031.50 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 69031.50 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 72248.78 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 72248.78 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 24232.92 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 24232.92 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 98330.61 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 98330.61 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 96004.78 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 96004.78 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 13C8-PFOS | 507.0 / 99.0 | 28815.73 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 28815.73 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 104809.62 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 104809.62 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 100058.61 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 100058.61 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 99805.43 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 99805.43 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 76174.59 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 76174.59 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 76174.59 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 76174.59 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 18962.49 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 18962.49 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 17071.83 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 17071.83 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 113375.07 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 33030.83 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 33030.83 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 90802.43 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 90802.43 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 90802.43 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 90802.43 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 113375.07 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 113375.07 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 113375.07 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 33030.83 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 33030.83 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 33030.83 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 103255.81 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 28259.42 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 28259.42 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 91592.68 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 91592.68 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 91592.68 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 91592.68 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 103255.81 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 103255.81 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 103255.81 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 28259.42 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 28259.42 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 28259.42 | 239.25 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 111477.67 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 31991.59 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 31991.59 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 97363.06 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 97363.06 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 97363.06 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 97363.06 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 111477.67 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 111477.67 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 111477.67 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 31991.59 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 31991.59 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 31991.59 | 239.25 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 113906.81 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 33411.74 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 33411.74 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 94543.39 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 94543.39 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 94543.39 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 94543.39 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 113906.81 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 113906.81 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 113906.81 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 33411.74 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 33411.74 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 33411.74 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 111859.63 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 32602.79 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 32602.79 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 97039.28 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 97039.28 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 97039.28 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 97039.28 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 111859.63 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 111859.63 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 111859.63 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 32602.79 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 32602.79 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 32602.79 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 100293.93 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 30979.45 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 30979.45 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 91332.67 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 91332.67 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 91332.67 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 91332.67 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 100293.93 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 100293.93 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 100293.93 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 30979.45 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 30979.45 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 30979.45 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 103393.10 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 29419.36 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29419.36 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 82084.86 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 82084.86 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 82084.86 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 82084.86 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 103393.10 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 103393.10 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 103393.10 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29419.36 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 29419.36 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 29419.36 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 129778.80 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 36448.54 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 36448.54 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 118500.07 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 118500.07 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 118500.07 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 118500.07 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 129778.80 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 129778.80 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 129778.80 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 36448.54 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 36448.54 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 36448.54 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 103585.05 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 29491.21 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 29491.21 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 88707.35 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 88707.35 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 88707.35 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 88707.35 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 103585.05 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 103585.05 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 103585.05 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29491.21 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 29491.21 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 29491.21 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 105298.91 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 29386.81 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 29386.81 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 88115.42 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 88115.42 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 88115.42 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 88115.42 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 105298.91 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 105298.91 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 105298.91 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29386.81 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 29386.81 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 29386.81 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | 13C3-PFBS | 302.0 / 99.0 | 29931.35 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.55 | 13C3-PFBS | 302.0 / 99.0 | 29931.35 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 64623.54 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.88 | 13C5-PFHxA | 318.0 / 273.0 | 64623.54 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.29 | 13C4-PFHpA | 367.0 / 322.0 | 78532.71 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.29 | 13C4-PFHpA | 367.0 / 322.0 | 78532.71 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.31 | 13C3-PFHxS | 402.0 / 99.0 | 24557.37 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.31 | 13C3-PFHxS | 402.0 / 99.0 | 24557.37 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.70 | 13C8-PFOA | 421.0 / 376.0 | 89341.23 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.70 | 13C8-PFOA | 421.0 / 376.0 | 89341.23 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.10 | 13C9-PFNA | 472.0 / 427.0 | 101923.17 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.10 | 13C9-PFNA | 472.0 / 427.0 | 101923.17 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 29911.21 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 29911.21 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.46 | 13C6-PFDA | 519.0 / 474.0 | 95291.86 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.46 | 13C6-PFDA | 519.0 / 474.0 | 95291.86 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.79 | 13C7-PFUnA | 570.0 / 525.0 | 92564.48 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.79 | 13C7-PFUnA | 570.0 / 525.0 | 92564.48 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.07 | 13C2-PFDoA | 615.0 / 570.0 | 94777.21 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.07 | 13C2-PFDoA | 615.0 / 570.0 | 94777.21 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.32 | 13C2-PFTeDA | 715.0 / 670.0 | 75318.87 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.32 | 13C2-PFTeDA | 715.0 / 670.0 | 75318.87 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.54 | 13C2-PFTeDA | 715.0 / 670.0 | 75318.87 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.54 | 13C2-PFTeDA | 715.0 / 670.0 | 75318.87 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.61 | d3-MeFOSAA | 573.0 / 419.0 | 16424.82 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.61 | d3-MeFOSAA | 573.0 / 419.0 | 16424.82 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | d5-EtFOSAA | 589.0 / 419.0 | 16839.54 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | d5-EtFOSAA | 589.0 / 419.0 | 16839.54 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 26210.74 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 26210.74 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 59261.67 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.86 | 13C5-PFHxA | 318.0 / 273.0 | 59261.67 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 64781.80 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 64781.80 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 22477.37 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 22477.37 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 80829.08 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.68 | 13C8-PFOA | 421.0 / 376.0 | 80829.08 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.08 | 13C9-PFNA | 472.0 / 427.0 | 81592.33 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.08 | 13C9-PFNA | 472.0 / 427.0 | 81592.33 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.08 | 13C8-PFOS | 507.0 / 99.0 | 28314.19 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.08 | 13C8-PFOS | 507.0 / 99.0 | 28314.19 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.44 | 13C6-PFDA | 519.0 / 474.0 | 84495.88 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.44 | 13C6-PFDA | 519.0 / 474.0 | 84495.88 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.76 | 13C7-PFUnA | 570.0 / 525.0 | 74549.54 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.76 | 13C7-PFUnA | 570.0 / 525.0 | 74549.54 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.05 | 13C2-PFDoA | 615.0 / 570.0 | 80879.36 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.05 | 13C2-PFDoA | 615.0 / 570.0 | 80879.36 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | 13C2-PFTeDA | 715.0 / 670.0 | 66638.67 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.29 | 13C2-PFTeDA | 715.0 / 670.0 | 66638.67 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | 13C2-PFTeDA | 715.0 / 670.0 | 66638.67 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.51 | 13C2-PFTeDA | 715.0 / 670.0 | 66638.67 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | d3-MeFOSAA | 573.0 / 419.0 | 12789.33 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.59 | d3-MeFOSAA | 573.0 / 419.0 | 12789.33 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.76 | d5-EtFOSAA | 589.0 / 419.0 | 10553.28 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.76 | d5-EtFOSAA | 589.0 / 419.0 | 10553.28 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 23903.34 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 23903.34 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 54871.18 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 54871.18 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 60932.99 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 60932.99 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 21912.17 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 21912.17 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 77159.38 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 77159.38 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 76351.70 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 76351.70 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26091.42 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26091.42 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 79391.98 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 79391.98 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 78984.03 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 78984.03 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 75511.90 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 75511.90 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 64966.39 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 64966.39 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 64966.39 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 64966.39 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 11415.43 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 11415.43 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 13637.34 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 13637.34 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 21784.15 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 21784.15 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 53539.29 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 53539.29 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 59352.35 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 59352.35 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 22028.60 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 22028.60 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 77079.11 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 77079.11 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 80001.40 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 80001.40 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26157.63 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 26157.63 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 76990.85 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 76990.85 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 79791.82 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 79791.82 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 78987.30 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 78987.30 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 60579.02 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 60579.02 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 60579.02 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 60579.02 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 11745.05 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 11745.05 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 14691.16 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 14691.16 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 24729.24 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 24729.24 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 53040.25 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 53040.25 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 57522.25 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 57522.25 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 22092.81 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 22092.81 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 77305.66 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 77305.66 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 82621.70 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 82621.70 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 24248.95 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 24248.95 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 80312.27 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 80312.27 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 83226.51 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 83226.51 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 85263.42 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 85263.42 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 60668.23 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 60668.23 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 60668.23 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 60668.23 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 12220.65 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 12220.65 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 13147.19 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 13147.19 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.06 | 13C2-PFDA | 515.0 / 470.0 | 95331.22 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 13C4-PFOS | 503.0 / 99.0 | 30554.31 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.77 | 13C4-PFOS | 503.0 / 99.0 | 30554.31 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.86 | 13C2-PFOA | 415.0 / 370.0 | 95393.87 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.28 | 13C2-PFOA | 415.0 / 370.0 | 95393.87 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.69 | 13C2-PFOA | 415.0 / 370.0 | 95393.87 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.09 | 13C2-PFOA | 415.0 / 370.0 | 95393.87 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 13C2-PFDA | 515.0 / 470.0 | 95331.22 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.77 | 13C2-PFDA | 515.0 / 470.0 | 95331.22 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 13C2-PFDA | 515.0 / 470.0 | 95331.22 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 13C4-PFOS | 503.0 / 99.0 | 30554.31 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 13C4-PFOS | 503.0 / 99.0 | 30554.31 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.08 | 13C4-PFOS | 503.0 / 99.0 | 30554.31 | 239.25 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.04 | 13C2-PFDA | 515.0 / 470.0 | 88975.02 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.59 | 13C4-PFOS | 503.0 / 99.0 | 26079.06 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.75 | 13C4-PFOS | 503.0 / 99.0 | 26079.06 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 13C2-PFOA | 415.0 / 370.0 | 77621.72 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 13C2-PFOA | 415.0 / 370.0 | 77621.72 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 13C2-PFOA | 415.0 / 370.0 | 77621.72 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.07 | 13C2-PFOA | 415.0 / 370.0 | 77621.72 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.43 | 13C2-PFDA | 515.0 / 470.0 | 88975.02 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.75 | 13C2-PFDA | 515.0 / 470.0 | 88975.02 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.51 | 13C2-PFDA | 515.0 / 470.0 | 88975.02 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 26079.06 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 13C4-PFOS | 503.0 / 99.0 | 26079.06 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.07 | 13C4-PFOS | 503.0 / 99.0 | 26079.06 | 239.25 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 82309.54 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 26577.55 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 26577.55 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 70347.29 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 70347.29 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 70347.29 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 70347.29 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 82309.54 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 82309.54 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 82309.54 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 26577.55 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 26577.55 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 26577.55 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 84966.77 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 26229.36 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 26229.36 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 69451.83 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 69451.83 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 69451.83 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 69451.83 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 84966.77 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 84966.77 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 84966.77 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 26229.36 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 26229.36 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 26229.36 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:48:09 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 87499.20 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 27719.09 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 27719.09 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 77816.94 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 77816.94 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 13C2-PFOA | 415.0 / 370.0 | 77816.94 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 77816.94 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 87499.20 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 87499.20 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 87499.20 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 27719.09 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 27719.09 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 27719.09 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:49:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 29786.30 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 29786.30 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:49:49 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26033.27 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26033.27 | 239.25 |

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Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:49:54 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 24453.88 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 24453.88 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:49:20 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 13C4-PFOS | 503.0 / 99.0 | 33690.55 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:49:23 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 26912.55 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:49:27 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 25262.39 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:50:41 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.78 | d5-EtFOSAA | 589.0 / 419.0 | 14753.24 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | d5-EtFOSAA | 589.0 / 419.0 | 14753.24 | 250.00 |

BATTELLE

Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.82 | d5-EtFOSAA | 589.0 / 419.0 | 16047.60 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.81 | d5-EtFOSAA | 589.0 / 419.0 | 16047.60 | 250.00 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:50:49 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 13553.16 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 13553.16 | 250.00 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:50:54 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 15311.78 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 15311.78 | 250.00 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:50:10 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 13C4-PFOS | 503.0 / 99.0 | 33690.55 | 239.25 |

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Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:50:15 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.81 | 13C4-PFOS | 503.0 / 99.0 | 31112.11 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:50:18 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 29868.11 | 239.25 |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 12:50:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 30606.62 | 239.25 |

# Raw Analytical Data

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:57:18 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:44:37 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | 4947.05 | 15.656792 | 24.0 | true |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 1664.26 | 12.150879 | 20.3 | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 4212.63 | 4.099058 | 23.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1334.91 | < 0 | 12.6 | true |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 8215.39 | 26.403056 | 17.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 363.18 | 39.932965 | 14.0 | false |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 5193.00 | < 0 | 21.0 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 1509.58 | < 0 | 13.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 9523.48 | 22.829804 | 22.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 1066.24 | 2.455462 | 12.4 | true |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 4634.80 | < 0 | 28.5 | true |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 436.91 | < 0 | 15.8 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 5085.02 | 18.532182 | 27.9 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 4560.43 | < 0 | 56.1 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 712.65 | < 0 | 30.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 4904.61 | < 0 | 92.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 413.16 | < 0 | 17.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 5031.74 | < 0 | 124.2 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | 289.75 | < 0 | 27.3 | true |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | 1183.00 | < 0 | 58.1 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 763.71 | < 0 | 22.5 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 1447.66 | < 0 | 62.0 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | 88.50 | 37.996738 | 326.8 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 12:57:24 PM

| | | | |
|---|---|---|---|
| **Sample Name** | CR884PB-FS(0) | **Injection Vial** | 24 |
| **Sample ID** | Procedural Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:50:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFBS_2 | 298.9 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_2 | 399.0 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 103306.00 | 223.799859 | 115.8 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 6815.03 | 251.745807 | 59.6 | false |
| PFNA_1 | 463.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| PFNA_2 | 463.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 4609.30 | 12.514304 | 11.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 1406.46 | 3.304574 | 11.0 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 1228.11 | < 0 | 10.2 | false |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 80.13 | < 0 | 5.0 | true |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 1386.31 | 10.262347 | 14.7 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 733.42 | < 0 | 23.8 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 297.47 | < 0 | 9.9 | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | CR885LCS-FS(0) | **Injection Vial** | 25 |
| **Sample ID** | Laboratory Control Sample | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:00:52 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 3221831.19 | 7227.698716 | 1748.6 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 971625.35 | 7253.601561 | 997.9 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 2243330.99 | 6919.354262 | 115.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 166137.67 | 6831.877190 | 115.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 2037460.13 | 7042.135569 | 341.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 43027.50 | 7277.790194 | 293.4 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 3154327.66 | 8196.049283 | 940.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 906619.36 | 8438.530501 | 1408.0 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 3139843.30 | 7769.073197 | 655.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 192529.15 | 7507.295109 | 640.2 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 2841511.84 | 8273.533614 | 976.7 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 885940.85 | 8403.293605 | 794.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 4551079.51 | 6485.127369 | 664.5 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 809039.50 | 6657.813265 | 783.5 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 3284282.60 | 7705.617955 | 1001.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 140171.00 | 7671.030996 | 554.7 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 3571731.01 | 6939.914570 | 615.7 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 182937.43 | 7134.877837 | 433.6 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 3078268.11 | 7455.436704 | 908.6 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 474647.76 | 7320.105472 | 732.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 2793024.09 | 7992.736321 | 1157.8 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 180468.59 | 8046.676016 | 812.8 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 2996988.55 | 8031.958950 | 1608.7 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 142156.14 | 7821.514114 | 1246.4 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 547741.46 | 6680.380659 | 843.7 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 313488.59 | 7031.797970 | 809.9 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 557499.87 | 9233.645348 | 1259.9 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 36388.87 | 7295.117109 | 602.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8308-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-SO-FB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:11:44 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 2117.00 | 5.720564 | 12.3 | true |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2187.93 | 14.471964 | 23.0 | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 3395.95 | 0.890070 | 18.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1098.52 | < 0 | 14.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 100842.80 | 243.703188 | 125.5 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 5891.83 | 244.141493 | 82.1 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 12960.55 | 12.146542 | 42.1 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 4625.93 | 13.367357 | 43.5 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 14598.09 | 24.460427 | 25.5 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2327.22 | 8.644410 | 32.9 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 27016.11 | 29.103841 | 89.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 1738.48 | 49.981899 | 34.6 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 42821.99 | 92.828779 | 126.8 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.71 | 4223.04 | 127.002475 | 68.9 | true |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 55752.82 | 121.352052 | 211.2 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 9696.75 | 126.150559 | 155.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 66474.10 | 184.033266 | 340.8 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 4746.69 | 193.350288 | 142.2 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 72482.42 | 176.844826 | 436.1 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 3206.48 | 150.840588 | 244.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8324-FS(0) | **Injection Vial** | 27 |
| **Sample ID** | VC-AQ-EB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:22:35 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 3235.89 | 8.244600 | 16.6 | true |
| PFBS_2 | 298.9 / 99.0 | 1.50 | 3218.81 | 22.084847 | 23.5 | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 31625.80 | 67.015707 | 85.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 9089.62 | 36.691212 | 72.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 132049.48 | 318.036829 | 140.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 8912.41 | 356.936511 | 120.8 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 10264.12 | 3.656747 | 40.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 3037.51 | < 0 | 37.1 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 2084274.13 | 3176.403869 | 614.0 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 410556.66 | 3606.074528 | 1107.3 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 11231.35 | < 0 | 42.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 719.62 | < 0 | 20.9 | true |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 21912.24 | 49.786232 | 66.5 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 21528.40 | 30.747241 | 109.6 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 2815.08 | 11.203128 | 65.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 27579.31 | 40.516821 | 210.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 2548.24 | 56.606000 | 92.2 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 29431.56 | 28.530409 | 215.7 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 1392.03 | 20.477519 | 117.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8323-FS(0) | **Injection Vial** | 28 |
| **Sample ID** | VC-AQ-FB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:33:27 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFBS_2 | 298.9 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 14938.62 | 26.627685 | 13.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 316.57 | < 0 | 11.4 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 3455.44 | 0.533286 | 14.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 763.74 | < 0 | 8.3 | true |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 101167.61 | 229.889839 | 118.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 5396.76 | 213.538012 | 88.3 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 7111.03 | < 0 | 25.3 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 3214.98 | < 0 | 37.0 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 15879.83 | 26.341373 | 25.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 3848.69 | 20.252241 | 40.2 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13848.28 | < 0 | 54.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 773.90 | < 0 | 27.9 | true |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 22408.22 | 50.475547 | 78.6 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 1377.70 | 10.339142 | 28.1 | true |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 27766.37 | 47.370346 | 123.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 4014.38 | 31.155465 | 99.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 34001.90 | 64.109030 | 229.3 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 2448.41 | 60.563129 | 96.3 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 42187.87 | 67.526078 | 293.8 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 2246.12 | 71.805854 | 169.6 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS(0) | **Injection Vial** | 29 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:44:19 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 19326875.55 | 56714.511790 | 345.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 5655865.33 | 55267.509681 | 776.7 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 62271376.66 | 208904.723933 | 351.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 4426329.41 | 198222.201977 | 636.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 5728660.59 | 22992.490310 | 215.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 150770.53 | 29834.587774 | 387.2 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 111383768.30 | 376991.165328 | 684.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 55268020.20 | 672640.035348 | 1126.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 27063182.45 | 81721.571253 | 624.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 1590137.46 | 75486.699933 | 593.5 | true |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 123275.35 | 881.793190 | 60.1 | false |
| PFNA_2 | 463.0 / 219.0 | 2.96 | 49259.02 | 1150.901662 | 124.1 | false |
| PFOS_1 | 499.0 / 80.0 | 2.96 | 247647318.93 | 983696.601072 | 281.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 107877818.92 | 2480051.677029 | 2261.0 | false |
| PFDA_1 | 513.0 / 469.0 | 3.35 | 57261.67 | 115.358004 | 51.0 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 1866.36 | < 0 | 21.3 | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.24 | 1772.57 | < 0 | 25.0 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(3) | **Injection Vial** | 30 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:55:11 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2701144.41 | 5084.996037 | 327.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 815412.07 | 5106.716960 | 426.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 8006744.47 | 22024.404565 | 187.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 502444.47 | 18440.073592 | 244.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 655306.55 | 1826.654236 | 143.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 18366.66 | 2467.045214 | 121.6 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 25607357.61 | 59810.371126 | 1030.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 7475415.33 | 62753.743533 | 1218.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 3458923.69 | 7899.702584 | 517.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 194825.80 | 7013.759807 | 399.4 | true |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 20931.83 | 43.928674 | 33.9 | false |
| PFNA_2 | 463.0 / 219.0 | 2.97 | 9322.83 | 69.755534 | 49.2 | true |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 121736088.60 | 236782.921038 | 465.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 16668612.39 | 187631.209419 | 2463.0 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(5) | **Injection Vial** | 31 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:06:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 985502.21 | 1949.128813 | 338.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 299409.18 | 1966.700957 | 395.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 2834601.37 | 8639.589754 | 116.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 174533.13 | 7091.015431 | 115.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 246441.25 | 776.417440 | 90.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 6080.87 | 880.313118 | 66.5 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 8904637.46 | 21015.684767 | 1118.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 2620934.21 | 22210.973585 | 1452.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 1336241.81 | 3044.025837 | 361.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 75314.78 | 2717.061750 | 249.1 | true |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 9222.87 | 3.872048 | 22.2 | false |
| PFNA_2 | 463.0 / 219.0 | 2.99 | 3937.95 | 9.970189 | 23.5 | true |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 58443510.88 | 93882.049262 | 591.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 7466894.49 | 69408.213850 | 1754.2 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(7) | **Injection Vial** | 32 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:16:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 81675.96 | 192.275080 | 121.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 26389.02 | 201.493253 | 183.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 255245.02 | 756.742342 | 36.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 16936.37 | 660.433853 | 32.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 23847.30 | 62.764287 | 20.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 523.35 | < 0 | 9.7 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 909653.34 | 2287.977016 | 526.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 258147.56 | 2302.196910 | 900.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 139293.56 | 310.293951 | 126.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 7862.65 | 295.808084 | 102.9 | true |
| PFNA_1 | 463.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| PFNA_2 | 463.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 6735284.45 | 9289.562735 | 502.8 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 880744.18 | 7017.662762 | 1094.6 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(9) | **Injection Vial** | 33 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:27:48 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 492791.79 | 1050.243588 | 245.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 150609.43 | 1063.557237 | 372.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 1401738.10 | 4430.316189 | 87.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 86136.13 | 3623.845344 | 87.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 121814.38 | 372.010886 | 65.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 3627.23 | 486.717062 | 53.4 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 4657149.22 | 11513.488886 | 809.9 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1290458.38 | 11439.398815 | 1322.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 675770.95 | 1646.900386 | 296.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 39448.43 | 1531.342082 | 223.4 | true |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 7267.34 | < 0 | 18.2 | false |
| PFNA_2 | 463.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 31693343.13 | 50197.381547 | 529.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 4021793.21 | 36854.165900 | 1511.6 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8309-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-SO-EB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:00:23 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFBS_2 | 298.9 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 10646.50 | 14.029245 | 9.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 509.98 | < 0 | 17.0 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 5185.91 | 5.088524 | 19.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1964.45 | < 0 | 22.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 116543.00 | 275.520869 | 125.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 8459.44 | 333.452670 | 123.4 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 8692.34 | 1.294038 | 32.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 3340.07 | 2.942956 | 37.9 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 63466.92 | 97.114184 | 69.5 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 9698.95 | 72.190566 | 115.3 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 19267.71 | 4.943593 | 57.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 821.99 | < 0 | 26.2 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 38205.94 | 84.179560 | 92.4 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 51484.58 | 99.366881 | 161.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 7164.84 | 74.916970 | 119.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 61052.02 | 129.011280 | 279.8 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 4435.23 | 135.105052 | 139.3 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 71596.49 | 132.882102 | 437.2 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 3396.97 | 122.433012 | 250.7 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8319-FS(0) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:11:14 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 85472500.35 | 257276.210823 | 2105.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 42962581.03 | 430664.347158 | 4738.4 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 99365562.85 | 400268.116869 | 637.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 10597813.60 | 569897.429025 | 750.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 15279810.79 | 99300.911609 | 614.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 217679.29 | 69819.408083 | 586.5 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.23 | 168984002.00 | 748972.657562 | 285.7 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 134943311.02 | 2150725.195181 | 771.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 49735875.12 | 221611.585662 | 916.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 2734432.28 | 191512.737461 | 560.6 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 369533.06 | 3212.072677 | 278.6 | false |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 142959.82 | 4051.630162 | 248.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.91 | 291369200.95 | 1545905.876129 | 112.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.03 | 138633454.51 | 4257062.623280 | 2249.3 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 336.18 | < 0 | 14.2 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(3) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:22:07 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 19213272.27 | 40683.313934 | 2067.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 5881053.27 | 41466.205580 | 2996.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 18945488.61 | 57244.055325 | 456.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 1209039.03 | 48757.718377 | 444.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 2105007.75 | 7525.075852 | 282.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 57843.75 | 10153.799361 | 221.5 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 91949272.62 | 229319.364411 | 848.5 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 37904084.46 | 339905.368413 | 1600.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 7376418.99 | 20262.018691 | 812.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 398607.10 | 17229.241646 | 515.1 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 62664.49 | 228.116306 | 106.5 | false |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 25455.71 | 305.021764 | 127.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 170786072.02 | 370367.546516 | 339.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 31460967.63 | 394858.427788 | 987.5 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 289.56 | < 0 | 13.0 | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(5) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:32:59 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 3546786.10 | 7699.365476 | 1320.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1075602.84 | 7770.536260 | 1068.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 3775614.90 | 11618.510616 | 170.5 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 232395.54 | 9536.386357 | 139.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 449386.71 | 1411.254196 | 127.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 12785.91 | 1921.850547 | 119.2 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 27750537.72 | 65273.256363 | 983.9 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 8444490.76 | 71393.554397 | 1192.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1646778.34 | 3759.030337 | 570.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 86505.95 | 3124.338907 | 411.9 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 14226.40 | 15.185346 | 43.7 | false |
| PFNA_2 | 463.0 / 219.0 | 2.97 | 5722.25 | 22.601034 | 36.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 53731303.55 | 82150.792844 | 400.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 7694339.43 | 68073.086582 | 1277.4 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(9) | **Injection Vial** | 41 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:54:43 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 703388.50 | 1665.368052 | 792.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 219374.58 | 1724.348293 | 665.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 749145.92 | 2371.232617 | 71.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 48057.50 | 2020.518211 | 66.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 92130.38 | 279.817706 | 59.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 3242.88 | 432.057386 | 58.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 6046008.55 | 14639.148448 | 1110.7 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 1705983.02 | 14821.141019 | 1450.7 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 363112.47 | 782.158325 | 250.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 18577.22 | 649.906445 | 147.3 | true |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 4486.52 | < 0 | 16.9 | false |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 1650.60 | < 0 | 19.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 12708863.44 | 20110.721981 | 315.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 1958428.69 | 17922.592149 | 700.6 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8287-FS(0) | **Injection Vial** | 42 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:05:34 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 9453766.98 | 22115.408257 | 333.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2831844.96 | 22056.366293 | 360.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 37288058.88 | 95722.235272 | 287.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 2461955.68 | 84360.937313 | 558.9 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 3333584.04 | 10511.960356 | 184.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 49195.49 | 7587.613937 | 258.1 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 95764555.87 | 206465.414147 | 584.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 42745060.91 | 331366.196894 | 1513.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 18366756.65 | 49888.554819 | 545.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 1078454.59 | 46059.903792 | 589.4 | true |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 111621.92 | 582.175363 | 62.0 | false |
| PFNA_2 | 463.0 / 219.0 | 2.96 | 48199.49 | 824.296567 | 120.6 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 226992594.06 | 726536.044876 | 262.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 90514372.01 | 1676727.275654 | 2397.5 | true |
| PFDA_1 | 513.0 / 469.0 | 3.37 | 54895.14 | 75.599283 | 47.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 1480.12 | 21.799054 | 34.8 | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 885.34 | < 0 | 22.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(3) | **Injection Vial** | 43 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:16:26 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2096789.78 | 4208.566532 | 328.1 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 619237.60 | 4133.808524 | 312.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 7712678.68 | 20145.158362 | 178.4 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 490913.06 | 17107.250360 | 225.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 627276.99 | 1867.354949 | 128.3 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 17538.61 | 2517.089341 | 111.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 28597563.41 | 64612.710168 | 1314.0 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 8703846.62 | 70683.795991 | 1320.0 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 3709257.98 | 9195.441436 | 493.0 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 214196.42 | 8366.039003 | 350.7 | true |
| PFNA_1 | 463.0 / 419.0 | 3.02 | 29633.10 | 84.177812 | 37.0 | false |
| PFNA_2 | 463.0 / 219.0 | 2.99 | 11603.13 | 109.307411 | 69.3 | true |
| PFOS_1 | 499.0 / 80.0 | 3.00 | 137584503.17 | 331618.376225 | 449.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 26462341.01 | 369134.588944 | 1598.6 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 19194.14 | 5.951614 | 43.3 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 871.58 | < 0 | 30.9 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(7) | **Injection Vial** | 45 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:38:08 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 128843.40 | 285.599029 | 177.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 40490.53 | 293.506197 | 140.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 419684.79 | 1301.633473 | 44.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 29043.99 | 1192.973124 | 42.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 45122.99 | 137.614559 | 33.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 1661.86 | 197.642978 | 36.7 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1822881.51 | 4910.014959 | 717.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 522360.73 | 5026.958721 | 1096.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 304333.46 | 690.122312 | 189.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 15915.88 | 588.130094 | 137.7 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 5789.99 | < 0 | 24.3 | false |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 2103.50 | < 0 | 25.5 | false |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 14478661.92 | 21596.897027 | 547.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2345622.55 | 20236.041204 | 1337.7 | false |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 5455.54 | < 0 | 29.9 | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 648.31 | < 0 | 20.0 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8290-FS(0) | **Injection Vial** | 48 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:10:45 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1082826.32 | 2692.212849 | 136.1 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 313891.34 | 2593.624382 | 204.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 4360244.60 | 12534.912760 | 93.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 278718.22 | 10686.408436 | 146.3 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 478793.37 | 1292.125958 | 69.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 10771.79 | 1367.646916 | 75.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 16223100.41 | 40434.084139 | 607.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 4680249.94 | 41914.363189 | 874.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 3733592.90 | 9608.482526 | 296.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 206193.33 | 8360.584362 | 374.1 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 220806.49 | 733.321955 | 143.9 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 74077.70 | 799.447615 | 199.4 | false |
| PFOS_1 | 499.0 / 80.0 | 3.02 | 113720302.51 | 237740.178515 | 618.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 21649331.14 | 261932.475333 | 3004.8 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 33374.05 | 46.407984 | 48.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.27 | 5683.01 | 281.662044 | 84.6 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.71 | 6334.00 | 20.081771 | 21.9 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 2438.53 | < 0 | 23.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 565.13 | < 0 | 17.3 | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 1537.46 | < 0 | 50.8 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8290-FS-D(3) | **Injection Vial** | 49 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:21:37 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 224223.66 | 458.393411 | 122.4 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 65992.82 | 443.897152 | 138.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 682636.52 | 1894.222508 | 47.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 44371.65 | 1633.631495 | 47.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 91260.09 | 263.154612 | 41.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 2715.47 | 326.260233 | 40.5 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 2769178.73 | 6600.108628 | 543.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 781897.47 | 6668.723473 | 758.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 815593.30 | 1799.717783 | 271.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 47351.18 | 1662.576798 | 303.4 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 54118.47 | 118.650494 | 88.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 17591.00 | 122.504966 | 108.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 27196653.14 | 46476.116371 | 628.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 4454966.50 | 44047.897676 | 1777.4 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 15795.73 | < 0 | 43.4 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 2307.43 | 12.183714 | 15.4 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.00 | 1686.81 | < 0 | 19.3 | false |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 731.08 | < 0 | 21.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(5) | **Injection Vial** | 50 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:32:29 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 19272.95 | 38.816948 | 41.9 | true |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 8003.29 | 48.310549 | 56.7 | true |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 64096.96 | 171.026732 | 11.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 3604.03 | 117.285007 | 8.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 9357.28 | 6.656335 | 8.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 312.74 | < 0 | 8.5 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 278779.97 | 586.698088 | 301.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 84599.87 | 608.072605 | 416.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 69901.45 | 143.811929 | 79.5 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 5454.90 | 195.044777 | 83.3 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 5653.24 | < 0 | 22.7 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 2791.71 | < 0 | 30.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 2970697.76 | 4010.789510 | 448.8 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 491697.46 | 3828.022904 | 805.8 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.24 | 679.65 | < 0 | 29.8 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8288-FS(0) | **Injection Vial** | 51 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:43:21 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 720416.18 | 2587.018031 | 122.9 | true |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 217904.98 | 2600.538139 | 167.0 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 1513328.94 | 5092.887975 | 47.5 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 100043.31 | 4484.656214 | 74.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 792187.77 | 2501.746251 | 71.3 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 19132.37 | 2918.482250 | 136.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 7806492.92 | 19211.537898 | 240.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 2193583.70 | 19379.588908 | 578.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 7640446.99 | 19981.926224 | 264.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 444365.66 | 18285.395927 | 461.8 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 81451.61 | 221.431901 | 59.2 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 28242.56 | 248.705000 | 115.5 | false |
| PFOS_1 | 499.0 / 80.0 | 3.00 | 9858100.96 | 18065.945763 | 218.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 1527930.36 | 16192.233026 | 552.9 | true |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 9908.04 | < 0 | 16.2 | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 2830.29 | 12.982914 | 10.9 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 3.99 | 2459.47 | < 0 | 22.9 | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 1296.67 | < 0 | 23.8 | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS-D(3) | **Injection Vial** | 52 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:54:13 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 211594.52 | 426.219992 | 105.8 | true |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 69613.78 | 461.595534 | 119.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 362389.04 | 989.689662 | 21.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 24117.39 | 869.412947 | 27.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 175780.35 | 445.099523 | 44.4 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 2994.06 | 299.849575 | 41.2 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1584567.46 | 3536.569747 | 231.7 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 462389.64 | 3678.589844 | 461.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1674178.69 | 3726.318398 | 238.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 95646.18 | 3366.322539 | 319.5 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 19000.76 | 27.506113 | 39.9 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 5882.68 | 23.382546 | 59.4 | false |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 2030920.80 | 3002.536455 | 186.0 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 316073.25 | 2690.709331 | 398.4 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 7374.61 | < 0 | 20.2 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 1757.22 | 10.865556 | 11.9 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS(0) | **Injection Vial** | 53 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:05:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 43951294.69 | 109055.237945 | 509.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 14328347.46 | 118394.603568 | 990.2 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 93347227.03 | 333335.232480 | 481.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 8514222.41 | 405869.647646 | 779.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 7908383.52 | 36685.616914 | 325.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 101052.35 | 23081.799736 | 453.5 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 139211754.89 | 493501.293912 | 528.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 80522000.36 | 1026439.682192 | 927.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 28004403.73 | 111732.611971 | 816.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 1611608.38 | 101079.222666 | 804.6 | false |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 161225.25 | 1495.484375 | 109.3 | false |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 64929.69 | 1965.697487 | 148.5 | false |
| PFOS_1 | 499.0 / 80.0 | 2.93 | 279701136.00 | 1554540.820658 | 173.8 | true |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 143212627.91 | 4606720.660669 | 3347.3 | false |
| PFDA_1 | 513.0 / 469.0 | 3.36 | 85539.24 | 189.621067 | 81.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.26 | 12730.43 | 737.956844 | 121.6 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.00 | 3021.77 | < 0 | 30.2 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 495.46 | < 0 | 14.9 | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(3) | **Injection Vial** | 54 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:15:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13564751.67 | 23888.595363 | 517.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 3981978.07 | 23348.442270 | 782.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 35945001.73 | 86207.003850 | 409.5 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 2325847.84 | 74455.320652 | 491.3 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 2203151.11 | 6364.224691 | 258.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 35440.98 | 4982.626020 | 232.1 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 82583544.90 | 205893.728829 | 891.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 32235258.00 | 288970.076726 | 1551.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 7778184.86 | 19312.533228 | 727.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 426873.26 | 16678.589400 | 536.5 | true |
| PFNA_1 | 463.0 / 419.0 | 2.99 | 54006.41 | 221.890958 | 69.8 | false |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 25195.90 | 344.999580 | 106.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 215418736.57 | 543294.047177 | 325.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 66766448.17 | 974555.071883 | 1968.0 | true |
| PFDA_1 | 513.0 / 469.0 | 3.38 | 31139.41 | 25.791824 | 58.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.25 | 2994.04 | 91.424604 | 50.0 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 790.53 | < 0 | 27.1 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(5) | **Injection Vial** | 1 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:26:49 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2028799.97 | 3741.190501 | 468.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 611543.81 | 3750.197334 | 581.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 5415431.12 | 15248.086376 | 205.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 349001.52 | 13108.226962 | 227.3 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 357795.52 | 1078.972581 | 116.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 11318.70 | 1627.934975 | 72.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 18321184.90 | 38752.911155 | 1251.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 5316822.92 | 40408.334560 | 1553.7 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1455154.62 | 3345.675877 | 420.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 71941.30 | 2620.780196 | 318.0 | true |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 14704.29 | 21.212472 | 29.7 | false |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 5975.38 | 31.104784 | 47.5 | false |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 96387057.90 | 169315.695497 | 511.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 16589868.87 | 168651.259019 | 2050.7 | true |
| PFDA_1 | 513.0 / 469.0 | 3.34 | 5468.71 | < 0 | 22.2 | false |
| PFDA_2 | 513.0 / 219.0 | 3.28 | 1156.47 | 5.680298 | 26.5 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(7) | **Injection Vial** | 2 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:37:41 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 938999.99 | 1889.532353 | 433.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 284356.92 | 1900.208171 | 572.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 2636840.87 | 7250.855030 | 128.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 159267.61 | 5835.987470 | 108.9 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 171481.57 | 505.133366 | 77.4 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 3868.96 | 494.500597 | 60.1 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 8531051.50 | 20132.575457 | 915.7 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 2479372.50 | 21007.992957 | 1179.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 724639.30 | 1557.220282 | 364.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 39958.27 | 1370.213676 | 247.4 | true |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 7049.97 | < 0 | 21.5 | false |
| PFNA_2 | 463.0 / 219.0 | 3.02 | 2841.58 | < 0 | 26.6 | false |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 54490752.74 | 98471.129231 | 618.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 8778900.93 | 91804.762963 | 1131.5 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 602.53 | < 0 | 15.9 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(9) | **Injection Vial** | 3 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:48:34 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 182585.10 | 430.683312 | 274.6 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 55460.70 | 430.272796 | 261.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 535217.90 | 1362.021877 | 55.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 33038.72 | 1111.960481 | 57.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 38776.97 | 93.953704 | 31.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 1060.88 | 63.718594 | 33.0 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1817903.06 | 3825.098058 | 455.9 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 508739.58 | 3816.561006 | 671.0 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 156612.79 | 312.055097 | 159.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 7865.74 | 267.390650 | 101.3 | true |
| PFNA_1 | 463.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| PFNA_2 | 463.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 13220100.78 | 16564.940070 | 527.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2097367.38 | 15196.293388 | 1481.9 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 172.60 | < 0 | 8.0 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8320-FS(0)) | **Injection Vial** | 6 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:21:11 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 82334079.03 | 256893.094015 | 3117.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 41301321.92 | 429152.912169 | 5058.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 96109300.63 | 441219.680019 | 724.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 9962760.83 | 610568.629304 | 731.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 14730431.07 | 101605.055295 | 581.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 196560.02 | 66910.044458 | 524.8 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.23 | 168650160.08 | 717412.272361 | 285.8 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 130902381.67 | 2002360.937934 | 695.7 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 47441570.35 | 232864.697020 | 942.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 2558306.89 | 197380.316036 | 670.3 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 374409.87 | 3383.660679 | 281.0 | false |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 148255.95 | 4369.106363 | 210.2 | false |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 292624818.37 | 1682357.953017 | 126.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.03 | 140466354.30 | 4673931.655093 | 1960.7 | false |
| PFDA_1 | 513.0 / 469.0 | 3.32 | 81719.59 | 187.762672 | 102.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.25 | 12173.30 | 732.222401 | 106.2 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(3) | **Injection Vial** | 7 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:32:03 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 17330002.67 | 35932.906246 | 3292.1 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 5276872.65 | 36432.310238 | 3131.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 17524201.50 | 50916.471668 | 407.5 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 1095968.82 | 42499.304284 | 385.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 1942682.60 | 6591.722794 | 254.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 30636.94 | 5060.155507 | 259.7 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 87296045.19 | 211210.266245 | 781.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 35232060.95 | 306502.259672 | 1030.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 6620212.30 | 18078.089413 | 678.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 345629.85 | 14854.709606 | 567.7 | true |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 59692.00 | 199.186460 | 112.7 | false |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 21561.22 | 234.061179 | 106.2 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 163834050.38 | 305188.662937 | 358.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 30108931.70 | 324597.330421 | 1068.8 | true |
| PFDA_1 | 513.0 / 469.0 | 3.32 | 7173.47 | < 0 | 36.9 | false |
| PFDA_2 | 513.0 / 219.0 | 3.26 | 1666.34 | 33.165256 | 42.0 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(5) | **Injection Vial** | 8 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:42:55 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2994328.06 | 6465.852191 | 1635.1 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 916246.61 | 6583.602096 | 1298.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 3162480.43 | 9624.220545 | 151.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 200564.66 | 8137.960252 | 134.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 398212.72 | 1293.330336 | 131.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 6640.58 | 990.497944 | 85.8 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 23551860.91 | 55579.341283 | 968.9 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 7038995.59 | 59700.950509 | 996.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1451115.08 | 3397.101707 | 511.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 76212.31 | 2824.964740 | 357.3 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13790.79 | 14.479790 | 44.0 | false |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 6879.93 | 33.611348 | 64.5 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 46100072.35 | 72243.797641 | 384.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 7084578.06 | 64242.911301 | 1090.5 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8337-FS(0) | **Injection Vial** | 11 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:15:33 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 94267244.48 | 271189.218327 | 519.4 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 45705773.92 | 437883.007231 | 1886.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 93739311.00 | 351771.469071 | 567.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 8125564.94 | 407055.523424 | 759.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 15767802.28 | 99478.015280 | 425.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 208654.39 | 64962.631804 | 424.2 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 172492874.09 | 758876.905586 | 234.6 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 138708988.61 | 2194411.539966 | 580.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 49314272.02 | 211613.824002 | 866.5 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 2718549.64 | 183365.877706 | 604.5 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 444621.96 | 1503.455909 | 239.7 | false |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 163981.08 | 1807.376867 | 287.6 | false |
| PFOS_1 | 499.0 / 80.0 | 2.89 | 209465839.04 | 405205.717275 | 333.1 | false |
| PFOS_2 | 499.0 / 99.0 | 2.97 | 35163935.46 | 393685.345352 | 1126.6 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 72311.65 | 146.543195 | 107.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 4641.78 | 225.861462 | 82.0 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 1813.96 | < 0 | 21.9 | false |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(3) | **Injection Vial** | 12 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:26:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 22684766.28 | 43177.003454 | 881.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 7049029.69 | 44676.156094 | 1740.7 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 15163527.25 | 40097.510207 | 345.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 949060.65 | 33492.407602 | 358.7 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 2347240.71 | 7927.887826 | 276.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 39279.33 | 6479.911724 | 272.2 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 94585298.34 | 229268.783654 | 845.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 38881309.14 | 338876.613060 | 1024.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 7056652.66 | 17086.970369 | 674.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 359641.97 | 13707.668861 | 491.8 | true |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 55931.11 | 117.109477 | 104.6 | false |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 21707.63 | 149.756498 | 103.4 | false |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 37940042.81 | 48511.486728 | 455.4 | false |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 4132288.72 | 30568.118259 | 460.4 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 10543.12 | < 0 | 44.4 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 533.80 | < 0 | 19.5 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(5) | **Injection Vial** | 13 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:37:18 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 6583884.28 | 13130.298365 | 773.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1953675.12 | 12970.141070 | 1619.0 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 4088681.78 | 12192.636732 | 176.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 271246.54 | 10788.224421 | 159.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 698487.92 | 2303.444833 | 166.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 20785.33 | 3326.130194 | 153.8 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 39162215.96 | 94942.145527 | 1024.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 12498252.14 | 108926.005683 | 1301.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 2270052.01 | 5540.934157 | 588.5 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 119992.61 | 4624.069518 | 336.6 | true |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 22139.72 | 31.485761 | 49.7 | false |
| PFNA_2 | 463.0 / 219.0 | 2.97 | 8326.25 | 39.291768 | 54.7 | false |
| PFOS_1 | 499.0 / 80.0 | 2.93 | 11882722.90 | 15004.945760 | 397.7 | false |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 1336114.93 | 9752.536229 | 476.8 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13075.78 | < 0 | 48.7 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 1551.08 | 33.591720 | 28.6 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 638.19 | < 0 | 26.1 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(7) | **Injection Vial** | 14 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:48:10 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 106741.73 | 257.226330 | 221.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 34202.93 | 269.094938 | 197.2 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 86197.39 | 251.794540 | 15.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 6790.93 | 256.419248 | 16.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 15002.81 | 30.527583 | 15.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 286.31 | < 0 | 8.7 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 854084.35 | 2001.509498 | 324.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 242690.19 | 2012.501012 | 412.7 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 53372.98 | 121.126859 | 80.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 3489.19 | 144.209981 | 57.3 | true |
| PFNA_1 | 463.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| PFNA_2 | 463.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 357752.41 | 469.140696 | 115.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.00 | 43221.78 | 315.407247 | 140.4 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:20:46 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 96195589.36 | 341983.711683 | 3977.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 63941105.58 | 757021.275199 | 6200.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 113593970.70 | 549138.152309 | 516.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 15191916.86 | 980408.986661 | 814.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 23027625.74 | 161262.740189 | 618.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 346950.62 | 119972.534204 | 574.7 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 173557035.64 | 768873.654382 | 262.5 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.26 | 141141197.67 | 2248433.187840 | 582.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 51252469.96 | 203510.012099 | 900.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 2769643.66 | 172865.342133 | 620.8 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 192589.87 | 1076.793220 | 187.4 | false |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 80071.71 | 1462.871552 | 220.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.95 | 246945567.32 | 744890.451698 | 228.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 72684575.26 | 1268914.055662 | 1217.4 | true |
| PFDA_1 | 513.0 / 469.0 | 3.33 | 19985.29 | 15.642981 | 43.8 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 543.02 | < 0 | 17.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(3) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:31:38 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 39605247.41 | 81936.961949 | 3743.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 12912596.50 | 88960.068325 | 4571.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 34938521.74 | 97326.466171 | 524.4 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 2279862.95 | 84772.122435 | 527.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 3737979.93 | 12403.144368 | 380.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 56182.72 | 9134.006179 | 244.2 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 102565631.54 | 238745.461140 | 691.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 44345743.42 | 371166.309542 | 996.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 8363622.31 | 19680.315144 | 847.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 464919.76 | 17214.590528 | 561.7 | false |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 27136.00 | 53.275538 | 86.0 | false |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 12256.40 | 84.892350 | 93.6 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 80465164.07 | 108065.730636 | 341.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 11681589.78 | 90786.820067 | 667.1 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | 3.22 | 386.75 | < 0 | 13.0 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(5) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:42:30 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 16533078.16 | 32204.534397 | 3257.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 5145546.56 | 33373.774453 | 2739.0 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13817577.51 | 38793.619659 | 358.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 887810.04 | 33264.833150 | 406.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 1509698.95 | 4844.123756 | 248.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 23343.61 | 3624.359400 | 205.9 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 57408774.73 | 130226.448468 | 832.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 18797376.23 | 153301.326657 | 974.7 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 3446404.82 | 7544.820188 | 546.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 155319.77 | 5365.561178 | 381.1 | true |
| PFNA_1 | 463.0 / 419.0 | 2.97 | 13335.26 | 7.431190 | 45.4 | false |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 6294.09 | 19.447581 | 58.7 | false |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 34313406.64 | 49143.135998 | 339.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 4919414.98 | 40763.828699 | 623.8 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(7) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:53:23 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 7796678.98 | 16252.065841 | 2625.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2436162.26 | 16906.249027 | 1908.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 6768039.02 | 20412.553309 | 246.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 428329.10 | 17235.467605 | 241.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 722877.77 | 2443.278423 | 170.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 20688.82 | 3393.142845 | 160.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 30085246.05 | 73094.682852 | 914.4 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 9168865.61 | 80073.855264 | 1163.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 1712940.39 | 3845.340198 | 524.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 81830.58 | 2908.428231 | 318.8 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 4594.30 | < 0 | 20.7 | false |
| PFNA_2 | 463.0 / 219.0 | 2.95 | 3025.04 | < 0 | 24.8 | false |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 17711779.41 | 25830.952687 | 324.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 2570696.11 | 21685.269932 | 737.9 | true |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | 3.32 | 261.33 | < 0 | 10.4 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(9) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:04:15 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 3110132.43 | 6454.028529 | 1829.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 970476.84 | 6701.443038 | 1263.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 2925735.68 | 8542.200276 | 147.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 173879.57 | 6766.523980 | 144.3 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 296345.44 | 912.848146 | 105.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 8801.62 | 1278.900830 | 94.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 12839971.62 | 30019.067246 | 978.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 3772295.52 | 31681.953035 | 1191.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 766141.01 | 1515.141561 | 386.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 33673.50 | 1068.241752 | 252.8 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 3358.90 | < 0 | 17.4 | false |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 843.00 | < 0 | 12.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 7921722.38 | 10445.555783 | 245.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 1187003.91 | 9045.164440 | 718.2 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8289-FS(0) | **Injection Vial** | 22 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:15:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 572866.49 | 2300.075002 | 61.3 | true |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 167025.57 | 2227.925397 | 162.9 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 2796979.17 | 11387.166673 | 59.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 191992.97 | 10425.113488 | 107.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 1989364.12 | 7480.799169 | 111.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 41740.49 | 7684.947060 | 228.5 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 6706290.79 | 19436.203498 | 153.4 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 1912417.34 | 19898.361672 | 504.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 63889504.24 | 237670.504226 | 663.5 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 4838594.90 | 282914.324088 | 632.1 | true |
| PFNA_1 | 463.0 / 419.0 | 2.97 | 95740.60 | 301.331552 | 56.8 | false |
| PFNA_2 | 463.0 / 219.0 | 2.91 | 59185.62 | 626.305037 | 167.5 | false |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 7462950.31 | 14664.208327 | 156.6 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 1207535.61 | 13718.606371 | 568.4 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 24132.92 | 23.631501 | 34.5 | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 1466.53 | < 0 | 26.4 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8289-FS-D(3) | **Injection Vial** | 23 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:26:01 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 49592.37 | 91.367284 | 48.8 | true |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 16990.72 | 98.859439 | 63.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 145346.33 | 371.366493 | 14.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 8313.70 | 272.595937 | 15.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 78520.63 | 213.817303 | 41.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 2214.98 | 235.673168 | 39.2 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 312293.80 | 721.045314 | 190.4 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 82019.02 | 647.773527 | 271.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 4462370.50 | 9519.985483 | 571.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 258488.92 | 8687.496415 | 404.7 | true |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 5602.27 | < 0 | 19.4 | false |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 2672.49 | < 0 | 31.2 | false |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 379761.64 | 496.058582 | 127.5 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 57161.67 | 418.520372 | 209.3 | true |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 1768.46 | < 0 | 12.2 | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8330-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:58:39 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 97871587.62 | 429058.322666 | 600.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 66646276.05 | 973002.474686 | 2317.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | 120751212.38 | 681095.640966 | 456.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 16568202.63 | 1247557.836297 | 647.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | 29553468.45 | 217886.326238 | 532.2 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 398313.88 | 145017.040842 | 436.1 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.25 | 175853018.47 | 707812.588850 | 233.6 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | 153341241.99 | 2219428.241637 | 472.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 59238987.49 | 237684.396779 | 795.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 2871331.82 | 181087.416085 | 549.7 | true |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 148305.39 | 453.486418 | 120.3 | false |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 61244.59 | 613.886121 | 193.4 | false |
| PFOS_1 | 499.0 / 80.0 | 2.91 | 138644095.53 | 259323.174483 | 475.4 | false |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 17743549.45 | 192068.627155 | 784.8 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 2683.63 | < 0 | 10.0 | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8330-FS-D(3) | **Injection Vial** | 27 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:09:29 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 20656962.34 | 37871.397386 | 1225.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 6284447.27 | 38364.680161 | 1834.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 17046961.95 | 46007.291430 | 366.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 1069850.44 | 38535.032554 | 367.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 1848694.07 | 5763.325892 | 266.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 31146.07 | 4722.598971 | 227.9 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 61962491.48 | 143660.223707 | 835.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 20546921.92 | 171274.159339 | 1132.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 3216298.86 | 7268.303736 | 513.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 140613.02 | 5015.798660 | 353.0 | true |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 5651.76 | < 0 | 19.1 | false |
| PFNA_2 | 463.0 / 219.0 | 2.91 | 3122.56 | < 0 | 31.4 | false |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 6730941.60 | 7920.521653 | 320.1 | false |
| PFOS_2 | 499.0 / 99.0 | 2.95 | 742988.47 | 5047.885045 | 280.3 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 2834.82 | < 0 | 18.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.39 | 1016.62 | < 0 | 32.0 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8330-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:20:22 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 3974573.00 | 7178.051063 | 971.4 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1242915.64 | 7470.072910 | 1303.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 3455870.50 | 9064.034049 | 151.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 217835.93 | 7616.879075 | 134.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 420914.58 | 1121.333207 | 122.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 7579.70 | 924.042875 | 123.4 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 14475233.94 | 28954.739002 | 754.5 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 4026801.79 | 28932.055924 | 1135.9 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 793964.32 | 1514.676967 | 317.8 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 41210.86 | 1256.561486 | 216.2 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 9302.89 | < 0 | 32.5 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 3140.07 | < 0 | 42.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 1570293.20 | 1716.326226 | 173.2 | false |
| PFOS_2 | 499.0 / 99.0 | 2.95 | 179957.61 | 1125.972509 | 219.6 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13811.65 | < 0 | 67.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 1148.53 | < 0 | 29.3 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 598.51 | < 0 | 21.7 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(7) | **Injection Vial** | 29 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:31:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 902434.34 | 2392.610042 | 672.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 279888.29 | 2465.882158 | 643.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 821240.29 | 2854.607176 | 69.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 51813.18 | 2394.010161 | 63.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 103398.42 | 387.692870 | 66.4 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 2928.33 | 480.286331 | 44.8 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 3485412.00 | 9528.786065 | 555.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 967989.99 | 9483.555694 | 674.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 242685.09 | 588.671598 | 207.5 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 12980.11 | 515.630996 | 131.8 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 6221.94 | < 0 | 26.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 2706.87 | < 0 | 37.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 400753.75 | 594.675280 | 113.5 | false |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 46384.42 | 385.899149 | 162.7 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 11298.14 | < 0 | 55.3 | false |
| PFDA_2 | 513.0 / 219.0 | 3.39 | 572.56 | < 0 | 26.0 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 696.53 | < 0 | 22.3 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8331-FS(0) | **Injection Vial** | 30 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:42:06 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 101838122.67 | 460992.448489 | 617.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 67624080.19 | 1019443.740036 | 2173.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | 123068123.31 | 673438.738120 | 433.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.83 | 16264914.05 | 1188153.999622 | 775.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | 27748692.58 | 190395.019786 | 496.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 447331.19 | 151576.859261 | 459.1 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 175740955.72 | 735971.254281 | 198.2 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | 152956095.24 | 2303395.165075 | 497.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.64 | 54834920.45 | 214961.689129 | 846.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 2961390.60 | 182477.724473 | 483.1 | true |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 133593.93 | 388.540037 | 115.6 | false |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 52414.17 | 498.781224 | 196.9 | false |
| PFOS_1 | 499.0 / 80.0 | 2.91 | 105333836.96 | 183730.164604 | 579.6 | false |
| PFOS_2 | 499.0 / 99.0 | 2.93 | 11918522.01 | 120308.239482 | 676.3 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(5) | **Injection Vial** | 32 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:03:51 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 4333669.37 | 9828.610498 | 1109.7 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1349294.80 | 10185.770671 | 1173.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 3699297.97 | 11881.640736 | 163.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 241456.76 | 10342.974313 | 165.7 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 428499.81 | 1498.541594 | 123.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 8270.26 | 1356.817466 | 97.0 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 15353955.30 | 39779.823452 | 792.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 4345042.10 | 40448.547328 | 910.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 752571.51 | 1792.141347 | 346.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 30851.05 | 1176.529759 | 195.7 | true |
| PFNA_1 | 463.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| PFNA_2 | 463.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 1290135.68 | 1921.726153 | 169.2 | false |
| PFOS_2 | 499.0 / 99.0 | 2.93 | 134243.41 | 1145.248390 | 232.6 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 190.92 | < 0 | 13.1 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(7) | **Injection Vial** | 33 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:14:43 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 1531055.24 | 3845.415203 | 994.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 471479.98 | 3938.234527 | 758.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 1365519.83 | 4472.684659 | 89.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 89776.53 | 3915.610023 | 95.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 162182.54 | 590.687180 | 77.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 2720.76 | 414.586133 | 52.0 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 5781507.12 | 16294.425075 | 577.4 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 1651477.24 | 16704.773004 | 773.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 307157.90 | 727.540528 | 216.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 12981.33 | 505.010836 | 98.0 | true |
| PFNA_1 | 463.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| PFNA_2 | 463.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 490786.92 | 807.060047 | 137.2 | false |
| PFOS_2 | 499.0 / 99.0 | 2.93 | 57491.38 | 534.656945 | 212.7 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:47:21 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 97925187.14 | 357755.142755 | 4998.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 66863887.39 | 813506.436627 | 7987.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 115535331.67 | 548179.576810 | 487.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 16012416.16 | 1014223.223933 | 740.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 25635371.25 | 164990.091658 | 624.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 375186.08 | 119231.440541 | 488.1 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 174905799.13 | 755457.991627 | 226.7 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.26 | 146356767.38 | 2273173.091075 | 525.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 57478188.71 | 245309.688160 | 899.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 3349247.08 | 224677.272373 | 639.9 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 3144545.15 | 17073.511138 | 631.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 995427.05 | 17611.660232 | 519.5 | false |
| PFOS_1 | 499.0 / 80.0 | 2.95 | 240293023.82 | 642020.487365 | 253.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 61629767.69 | 953005.745929 | 996.0 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 5477822.86 | 14201.723194 | 819.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 244310.29 | 14787.263419 | 704.5 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 5872674.71 | 13833.072131 | 802.7 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 293058.88 | 13904.350172 | 610.9 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 5134712.80 | 13296.353957 | 734.6 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 850496.38 | 14035.711041 | 664.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 4578833.10 | 14007.116535 | 1346.9 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 304758.96 | 14538.951526 | 856.9 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 4829943.96 | 13845.358979 | 1876.5 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 233101.38 | 13724.256974 | 1328.1 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 984953.64 | 13916.426848 | 1221.9 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 534164.60 | 13883.758576 | 1189.3 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 981903.91 | 16324.594442 | 1045.8 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 58398.49 | 11715.268986 | 561.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:58:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 39914392.40 | 84878.132761 | 5306.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 12762659.83 | 90377.910245 | 4424.9 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 34881178.49 | 104797.418932 | 592.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 2350154.16 | 94249.704821 | 518.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 4055358.57 | 14681.657898 | 390.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 59200.86 | 10512.207001 | 284.9 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 102239363.25 | 278388.595342 | 693.0 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 43471847.91 | 425626.723176 | 1138.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 9347380.37 | 24568.937672 | 915.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 484397.90 | 20031.508911 | 510.1 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 495844.28 | 1404.976630 | 346.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 152267.93 | 1401.653553 | 327.6 | false |
| PFOS_1 | 499.0 / 80.0 | 2.96 | 60865735.78 | 96134.261921 | 398.8 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 8816654.37 | 80582.699034 | 660.6 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 624587.75 | 1370.820543 | 409.9 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 25990.17 | 1319.407481 | 253.4 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 631452.57 | 1211.481353 | 400.6 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 33136.49 | 1234.187340 | 277.0 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 522423.80 | 1293.359592 | 410.6 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 82725.08 | 1295.487754 | 453.9 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 453103.31 | 1296.506870 | 736.3 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 30957.79 | 1369.526870 | 386.9 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 468843.28 | 1245.288003 | 1019.5 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 23316.76 | 1267.480648 | 665.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 97897.83 | 1220.980242 | 652.9 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 52098.14 | 1188.868567 | 535.2 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 97651.49 | 1319.456844 | 500.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 6844.18 | 1168.540201 | 383.4 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(5) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:09:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 8666116.72 | 18688.410430 | 3276.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2636616.79 | 18930.049177 | 1890.6 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 7584816.42 | 22170.859325 | 279.6 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 472617.59 | 18431.995842 | 263.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 914077.07 | 3031.884056 | 190.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 12042.35 | 1894.531619 | 175.6 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 33002602.40 | 78699.188993 | 1128.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 10099433.42 | 86571.556940 | 1365.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 2120344.17 | 4581.551017 | 582.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 109030.38 | 3723.631300 | 386.4 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 119976.63 | 270.885603 | 191.2 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 37633.46 | 272.876285 | 202.9 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 14096448.94 | 18805.843099 | 283.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 2026604.92 | 15634.542138 | 572.6 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 141342.26 | 265.936550 | 232.1 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 5456.23 | 223.997967 | 123.2 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 132505.53 | 251.314619 | 199.8 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 7112.16 | 221.489320 | 122.5 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 106135.34 | 233.397425 | 215.0 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 18306.16 | 248.078396 | 217.5 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 93318.67 | 241.548877 | 440.8 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 5695.99 | 213.449265 | 178.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 91423.06 | 207.432274 | 559.0 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 4462.31 | 202.115856 | 246.0 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 20441.23 | 227.087427 | 283.8 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 11663.73 | 233.477596 | 560.2 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 21383.76 | 225.065627 | 259.2 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | 1215.26 | 204.405060 | 117.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(7) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:20:00 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 2981171.58 | 7291.553559 | 1632.3 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 933088.68 | 7595.009130 | 1176.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 2748818.36 | 9026.378253 | 137.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 177599.47 | 7775.262109 | 130.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 317649.51 | 1131.944183 | 105.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 9139.99 | 1547.560123 | 101.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 12787876.40 | 33631.861251 | 913.5 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 3573778.03 | 33765.708298 | 1027.1 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 798906.19 | 1969.876649 | 376.9 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 40035.92 | 1572.585613 | 206.5 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 45993.36 | 89.603080 | 117.0 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13977.68 | 83.945280 | 89.5 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 5428499.93 | 7607.233109 | 210.0 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 789787.18 | 6392.174264 | 501.3 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 50431.07 | 76.681927 | 129.1 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 2870.34 | 101.820390 | 75.5 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 47909.35 | 96.864231 | 117.7 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 2690.93 | 58.400078 | 66.9 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 37097.57 | 69.745970 | 146.2 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 6832.18 | 74.887380 | 129.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 35142.71 | 79.445772 | 273.2 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 2504.41 | 76.526599 | 97.1 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 37891.56 | 68.633014 | 381.9 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 1731.62 | 55.806906 | 161.8 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 8680.32 | 73.659437 | 169.3 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 4711.51 | 67.142104 | 134.3 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 8595.63 | 100.286401 | 160.3 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.71 | 523.03 | 126.141857 | 54.1 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 40 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:30:53 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 99823103.60 | 352864.879311 | 4454.0 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 70250400.57 | 826997.347223 | 9231.4 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | 119757741.18 | 562710.983078 | 494.9 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 17452272.20 | 1094719.357601 | 721.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | 27409131.21 | 166425.297477 | 602.4 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 369110.63 | 110657.162603 | 524.0 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 179903352.30 | 740089.388178 | 202.4 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | 151410183.51 | 2239822.304060 | 517.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.64 | 60567069.53 | 230059.115326 | 883.0 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 3423572.85 | 204402.881743 | 582.0 | true |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 3308777.47 | 15686.621807 | 603.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 1051231.71 | 16239.794226 | 465.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.94 | 246525217.91 | 642396.446902 | 259.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 67341349.67 | 1015596.283466 | 1042.7 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 5730909.40 | 14568.183172 | 668.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 253894.79 | 15067.706030 | 581.9 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 6199079.39 | 13969.344167 | 852.1 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 318029.32 | 14437.129023 | 700.4 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 5357592.40 | 13001.537273 | 822.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 878081.70 | 13579.625971 | 759.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 4709537.87 | 14859.366315 | 1413.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 307184.13 | 15114.762669 | 906.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | 4765629.16 | 14088.977746 | 1592.9 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 232290.33 | 14105.569580 | 1540.7 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 1013940.76 | 11711.274245 | 1421.4 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 562437.72 | 11950.239491 | 1283.7 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 1003829.98 | 16292.268945 | 892.9 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 64126.79 | 12557.045745 | 728.4 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(5) | **Injection Vial** | 42 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:52:40 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 7865118.88 | 17752.306132 | 2097.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 2386753.92 | 17935.238577 | 2050.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 6812127.92 | 20609.131232 | 253.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 429158.83 | 17322.333205 | 236.7 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 789123.56 | 2846.456929 | 173.3 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 23042.76 | 4045.542253 | 155.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 29303211.45 | 79026.129123 | 870.9 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 9039970.17 | 87635.668217 | 1129.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 1870965.67 | 4466.451881 | 491.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 90295.19 | 3409.073800 | 286.1 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 104889.73 | 268.718639 | 176.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 30349.48 | 247.498904 | 150.2 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13196932.11 | 18403.407318 | 274.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 1871074.51 | 15088.211740 | 691.1 | false |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 119692.57 | 229.124768 | 262.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 6205.83 | 273.053979 | 151.6 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.72 | 117007.58 | 239.361246 | 164.9 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 6764.55 | 227.913094 | 107.9 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 93828.11 | 217.449304 | 270.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.00 | 16004.05 | 227.619826 | 218.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 81295.09 | 234.365641 | 404.7 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 5319.88 | 224.792870 | 149.9 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | 79363.95 | 199.977476 | 628.2 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 3539.48 | 173.662481 | 221.2 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 18660.43 | 237.744260 | 304.3 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.55 | 10809.16 | 248.905662 | 499.7 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.71 | 19510.50 | 258.401034 | 326.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 1193.09 | 242.813603 | 178.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(7) | **Injection Vial** | 43 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:03:32 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 3090315.97 | 7384.845855 | 1778.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 947229.22 | 7532.918781 | 1576.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 2930120.57 | 8708.224184 | 135.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 183062.51 | 7252.598316 | 141.7 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 331320.20 | 1089.421924 | 106.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 9820.54 | 1534.727763 | 141.1 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13469428.44 | 33231.254676 | 1106.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 3860697.62 | 34218.980232 | 1309.5 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 837866.73 | 1858.364748 | 325.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 41649.49 | 1472.978782 | 211.5 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 46261.23 | 91.249961 | 104.8 | false |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 15867.29 | 100.183393 | 125.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 5858601.03 | 7894.959794 | 208.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 851853.87 | 6630.491525 | 628.5 | false |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 56322.86 | 84.615356 | 126.2 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 3395.94 | 121.943691 | 87.9 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.72 | 51521.29 | 103.277951 | 136.7 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 2850.62 | 64.060753 | 48.0 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 42297.44 | 84.652738 | 173.4 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 6860.93 | 77.493526 | 149.3 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 35961.87 | 77.223071 | 300.7 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 2208.00 | 57.484150 | 93.9 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | 37073.53 | 61.611297 | 405.0 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 1774.82 | 53.859498 | 129.5 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 8985.37 | 85.998539 | 413.8 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.55 | 3622.13 | 50.124914 | 95.6 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | 8728.55 | 75.043696 | 163.3 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 532.05 | 107.842392 | 55.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS(0) | **Injection Vial** | 46 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:36:09 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.57 | 112148397.08 | 1070428.944026 | 933.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 96698892.11 | 3073733.821697 | 3752.9 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.90 | 149887158.29 | 1912399.383600 | 237.7 | true |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 43850663.55 | 7468966.668033 | 704.1 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.22 | 62247712.24 | 1401653.171299 | 756.9 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 1067122.32 | 1187166.774303 | 726.0 | true |
| PFHxS_1 | 399.0 / 80.0 | 2.36 | 125612776.12 | 526928.058277 | 124.5 | true |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 129205207.82 | 1948998.982139 | 253.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.61 | 137866657.47 | 1524282.684378 | 428.6 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 12778084.84 | 2220426.432779 | 359.8 | true |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 937115.50 | 16127.264634 | 298.9 | false |
| PFNA_2 | 463.0 / 219.0 | 2.89 | 452524.64 | 25391.115533 | 356.9 | false |
| PFOS_1 | 499.0 / 80.0 | 2.77 | 67509469.50 | 757220.259630 | 34.2 | true |
| PFOS_2 | 499.0 / 99.0 | 2.98 | 267099890.17 | 17339349.449294 | 741.5 | false |
| PFDA_1 | 513.0 / 469.0 | 3.31 | 401608.58 | 1092.734634 | 233.1 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 457.43 | < 0 | 15.3 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(7) | **Injection Vial** | 49 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:08:47 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 4395990.66 | 9765.690435 | 1737.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 1329608.61 | 9831.331066 | 1432.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 5831236.11 | 19053.133434 | 214.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 367534.34 | 16021.173392 | 204.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 641783.59 | 2354.079373 | 149.1 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 18809.40 | 3347.784668 | 105.3 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 30371357.35 | 73898.076439 | 859.1 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 9585650.37 | 83838.341734 | 1059.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 2166917.12 | 5143.339837 | 560.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 117097.49 | 4389.027737 | 258.8 | false |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 8852.67 | 0.594625 | 33.5 | false |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 3955.23 | 6.958776 | 32.4 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 44682588.71 | 73023.793408 | 308.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 6384946.71 | 60379.881717 | 786.8 | false |
| PFDA_1 | 513.0 / 469.0 | N/A | N/A | N/A | N/A | true |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:44:37 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 101711.53 | 264.666031 | 1040.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 15447.83 | 224.218667 | 194.3 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 18621.34 | 252.396935 | 192.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 64119.13 | 225.470712 | 520.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 72671.62 | 229.597149 | 568.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 93052.42 | 231.606039 | 1231.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 93986.95 | 222.632571 | 8304.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 97963.09 | 249.454969 | 657.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 103237.53 | 279.178519 | 494.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 78755.15 | 252.149225 | 2115.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 25275.30 | 209.516102 | 650.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 25755.33 | 234.359451 | 299.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 25037.22 | 222.131229 | 220.6 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | CR884PB-FS(0) | **Injection Vial** | 24 |
| **Sample ID** | Procedural Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:50:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 112372.28 | 311.620558 | 809.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 19031.26 | 296.731840 | 197.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 20210.80 | 294.271911 | 198.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 78471.35 | 324.677501 | 745.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 87210.82 | 324.198171 | 607.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 112021.23 | 328.065875 | 1365.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 101834.30 | 283.827027 | 919.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 118763.69 | 322.294073 | 657.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 113983.15 | 328.491350 | 598.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 85873.12 | 293.004878 | 1475.6 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 31912.76 | 284.169564 | 595.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 30163.87 | 294.845610 | 422.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 31336.03 | 298.648127 | 189.1 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | CR885LCS-FS(0) | **Injection Vial** | 25 |
| **Sample ID** | Laboratory Control Sample | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:00:52 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 113466.20 | 289.687521 | 1307.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 19121.43 | 277.174554 | 115.3 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 18050.90 | 244.343366 | 190.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 76679.34 | 295.356904 | 487.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 83211.15 | 287.971434 | 565.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 95734.01 | 261.008511 | 3363.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 94239.80 | 244.524131 | 2502.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 108667.01 | 271.495539 | 972.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 114868.55 | 304.776010 | 470.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 88414.30 | 277.738718 | 1665.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 35827.03 | 296.592795 | 610.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 25799.70 | 234.454543 | 386.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 31708.71 | 280.951171 | 236.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8308-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-SO-FB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:11:44 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 107380.05 | 282.268179 | 1006.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16834.18 | 262.851810 | 204.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 19029.47 | 277.469040 | 227.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 75658.36 | 301.615357 | 647.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 82522.80 | 295.576280 | 558.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 100213.19 | 282.775019 | 1180.0 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 100305.84 | 269.365102 | 1019.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 105183.44 | 270.574805 | 839.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 111952.41 | 305.835671 | 622.8 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 78742.01 | 254.680360 | 1718.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 29361.66 | 261.828145 | 491.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29257.29 | 286.394193 | 339.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 35695.85 | 340.687347 | 285.7 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8324-FS(0) | **Injection Vial** | 27 |
| **Sample ID** | VC-AQ-EB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:22:35 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 113027.90 | 302.186293 | 1014.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 15611.10 | 216.822163 | 189.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 20186.05 | 261.812346 | 205.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 74983.36 | 286.758494 | 593.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 82639.13 | 283.946333 | 476.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 100014.09 | 270.727411 | 1442.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 104355.20 | 268.833947 | 996.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 120030.53 | 314.038232 | 807.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 115667.99 | 321.379861 | 746.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 98808.23 | 325.037060 | 1293.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 31263.19 | 247.982002 | 547.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29329.93 | 255.383117 | 308.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 29966.04 | 254.400962 | 229.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8323-FS(0) | **Injection Vial** | 28 |
| **Sample ID** | VC-AQ-FB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:33:27 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 110718.59 | 264.560367 | 770.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 16098.87 | 249.844565 | 175.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 20138.57 | 291.858248 | 201.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 79178.93 | 276.663382 | 681.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 87813.87 | 275.679387 | 562.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 106725.04 | 263.953892 | 1211.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 112421.74 | 264.612882 | 774.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 120360.85 | 281.443474 | 1095.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 116386.61 | 289.017171 | 543.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 91400.12 | 268.721036 | 1471.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 32138.00 | 284.846022 | 532.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 31446.34 | 305.953681 | 351.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 34710.94 | 329.276107 | 282.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS(0) | **Injection Vial** | 29 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:44:19 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 106049.28 | 286.337491 | 1037.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16090.78 | 705.492054 | 184.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 18551.90 | 759.577613 | 235.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 70588.29 | 265.077542 | 122.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 71816.22 | 242.304748 | 306.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 78395.49 | 208.377592 | 366.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 37474.33 | 94.796600 | 220.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 96472.46 | 254.903333 | 594.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 106143.11 | 297.836999 | 614.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 74138.70 | 246.300977 | 1303.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 27389.21 | 685.821660 | 286.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 20005.40 | 549.886893 | 181.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 10977.00 | 294.183283 | 94.9 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(3) | **Injection Vial** | 30 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:55:11 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 119815.55 | 307.557568 | 944.5 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 17850.15 | 380.969452 | 212.7 | true |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 19930.14 | 397.216311 | 213.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 86057.09 | 344.901545 | 282.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 102249.55 | 368.187433 | 665.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 103717.64 | 294.225803 | 729.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 85537.38 | 230.931408 | 815.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 126491.86 | 317.744132 | 2846.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 123119.97 | 328.441587 | 741.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 93140.46 | 294.172651 | 1903.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 42693.66 | 520.389143 | 476.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 30414.90 | 406.954172 | 368.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 23752.17 | 309.863641 | 205.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(5) | **Injection Vial** | 31 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:06:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 116324.45 | 322.611009 | 740.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 17829.77 | 382.228802 | 295.4 | true |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 22512.77 | 450.687115 | 249.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 77617.74 | 298.446250 | 318.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 89005.22 | 307.482015 | 765.8 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 104098.01 | 283.313471 | 1435.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 93028.85 | 240.958034 | 659.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 121833.19 | 330.655309 | 929.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 118728.92 | 342.200842 | 628.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 90142.25 | 307.600656 | 1791.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 40636.20 | 497.516267 | 507.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 28986.77 | 389.572568 | 419.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 27386.65 | 358.868810 | 241.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(7) | **Injection Vial** | 32 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:16:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 114289.64 | 296.927422 | 937.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 17763.16 | 271.479504 | 195.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21458.70 | 306.258981 | 198.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 78944.58 | 327.891990 | 609.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 80738.67 | 301.293101 | 684.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 108180.89 | 318.037738 | 1686.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 107214.00 | 299.970518 | 1169.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 115884.85 | 294.626501 | 639.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 114456.13 | 309.028752 | 399.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 89925.40 | 287.459408 | 1775.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 34128.38 | 297.885410 | 613.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 27108.08 | 259.732634 | 489.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 33488.92 | 312.850752 | 211.1 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(9) | **Injection Vial** | 33 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:27:48 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 111291.64 | 307.505622 | 1109.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17555.24 | 333.767943 | 279.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19984.64 | 354.815628 | 262.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 74777.02 | 307.759214 | 495.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 89098.15 | 329.466080 | 586.8 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 97455.38 | 283.901946 | 1166.0 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 99018.38 | 274.522102 | 992.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 120923.19 | 326.965416 | 781.9 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 115928.89 | 332.888334 | 518.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 84030.59 | 285.679169 | 1290.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37709.89 | 409.458240 | 465.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 27330.58 | 325.759845 | 261.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 28826.36 | 335.001443 | 225.3 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8309-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-SO-EB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:00:23 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 117159.08 | 301.217359 | 978.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18664.06 | 307.495424 | 199.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 18876.44 | 290.416580 | 225.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 77062.95 | 298.047389 | 865.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 84194.38 | 292.564674 | 473.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 102168.14 | 279.688621 | 1170.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 96827.69 | 252.265507 | 1277.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 118545.66 | 298.257510 | 1075.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 111158.49 | 297.004500 | 954.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 97285.12 | 307.752156 | 2670.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 33258.80 | 312.936203 | 505.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29326.00 | 302.897995 | 259.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 31450.68 | 316.724590 | 224.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS(0) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:11:14 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 98271.65 | 265.989375 | 582.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 15697.22 | 799.462573 | 209.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 20375.08 | 969.043665 | 245.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 58787.67 | 208.123501 | 433.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 44385.99 | 141.182198 | 434.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 53126.08 | 133.125824 | 516.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 31428.04 | 74.949866 | 363.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 102588.78 | 271.730019 | 687.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 103731.46 | 291.784967 | 578.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 78174.30 | 260.345903 | 2695.1 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 26701.72 | 776.660626 | 514.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 16078.69 | 513.377684 | 291.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 8465.44 | 263.538473 | 110.1 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(3) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:22:07 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 113594.96 | 306.806336 | 775.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 18091.85 | 515.890669 | 237.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 20980.97 | 558.687693 | 225.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 78364.37 | 347.667630 | 587.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 80468.93 | 320.754612 | 525.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 86198.67 | 270.685994 | 1332.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 68555.73 | 204.883958 | 655.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 117152.74 | 309.641689 | 900.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 116827.43 | 327.918909 | 708.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 88460.37 | 293.971144 | 2462.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37957.43 | 618.141965 | 661.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 26987.30 | 482.442129 | 353.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 20699.59 | 360.791090 | 178.6 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(5) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:32:59 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 114201.78 | 317.862858 | 638.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16964.06 | 350.117534 | 177.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19168.06 | 369.428857 | 269.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 76897.88 | 326.737550 | 666.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 90435.43 | 345.240998 | 855.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 103852.13 | 312.334316 | 961.0 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 101433.41 | 290.324901 | 808.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 120087.86 | 327.090355 | 937.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 125758.82 | 363.765716 | 693.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 86638.88 | 296.708802 | 1680.1 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37024.44 | 436.404351 | 700.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29236.93 | 378.291596 | 373.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 29538.14 | 372.637293 | 218.6 | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8219-FS-D(9) | **Injection Vial** | 41 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:54:43 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 121741.61 | 304.174162 | 989.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 17349.92 | 264.576862 | 244.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 21920.68 | 312.159871 | 253.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 74536.65 | 273.937679 | 830.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 87939.42 | 290.378600 | 835.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 110670.85 | 287.895468 | 5848.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 108290.67 | 268.096761 | 913.6 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 117260.45 | 286.705835 | 675.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 117618.74 | 305.405015 | 784.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 89419.25 | 274.893821 | 1735.2 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 33945.19 | 295.630453 | 721.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 28346.25 | 270.994776 | 300.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 28949.91 | 269.848987 | 207.2 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8287-FS(0) | **Injection Vial** | 42 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:05:34 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 122343.73 | 298.086425 | 754.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16714.85 | 621.435121 | 143.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 23832.64 | 827.435243 | 185.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 92241.73 | 318.829213 | 210.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 91302.02 | 283.537269 | 323.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 87156.37 | 213.230571 | 441.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 50719.88 | 118.093898 | 280.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 125231.29 | 298.589840 | 813.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 128634.38 | 325.712130 | 727.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 77771.84 | 233.148991 | 1584.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 34357.46 | 729.509469 | 232.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 30540.15 | 711.828536 | 195.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 15119.15 | 343.589425 | 114.4 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(3) | **Injection Vial** | 43 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:16:26 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 111028.84 | 293.955048 | 685.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 17416.68 | 451.091273 | 199.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21026.92 | 508.561313 | 231.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 90626.04 | 363.980725 | 360.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 95768.06 | 345.577262 | 564.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 95541.97 | 271.605913 | 889.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 75791.99 | 205.053562 | 654.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 115301.58 | 298.732231 | 718.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 115993.14 | 319.149241 | 559.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 84178.53 | 274.218752 | 1509.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 40042.91 | 592.299437 | 293.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29960.97 | 486.480951 | 239.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 18348.31 | 290.478772 | 155.1 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(7) | **Injection Vial** | 45 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:38:08 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 107099.88 | 299.161332 | 929.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19318.43 | 363.799129 | 245.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 20423.47 | 359.159955 | 250.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 75835.83 | 318.051121 | 453.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 81333.41 | 306.471841 | 604.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 105225.52 | 312.365610 | 1355.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 106727.85 | 301.521901 | 724.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 115383.09 | 315.399026 | 947.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 111730.88 | 324.344171 | 596.3 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 85227.09 | 292.917167 | 1879.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 36249.74 | 389.862373 | 593.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 25062.15 | 295.882389 | 283.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 30449.78 | 350.504100 | 281.1 | false |

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|---|---|---|---|
| **Sample Name** | J8290-FS(0) | **Injection Vial** | 48 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:10:45 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 111357.84 | 291.555137 | 1040.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16523.52 | 337.208036 | 149.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 20137.40 | 383.766887 | 194.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 82317.30 | 319.863722 | 214.8 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 105084.88 | 366.870879 | 544.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 92032.39 | 253.124533 | 489.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 80292.24 | 210.167759 | 485.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 102880.26 | 263.592862 | 749.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 112692.63 | 306.627963 | 646.3 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 62761.71 | 202.183331 | 1489.7 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 32325.85 | 376.757648 | 243.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 27662.21 | 353.910295 | 225.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 21449.88 | 267.571319 | 153.8 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8290-FS-D(3) | **Injection Vial** | 49 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:21:37 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 109019.42 | 299.465565 | 1073.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16947.99 | 327.811753 | 158.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 22814.43 | 412.082877 | 225.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 84942.64 | 340.014593 | 344.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 92190.84 | 331.557353 | 655.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 107601.72 | 304.867189 | 1085.3 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 104828.65 | 282.663955 | 657.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 117808.01 | 316.679203 | 844.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 111038.80 | 316.981661 | 585.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 82701.52 | 279.516331 | 1689.2 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 39308.38 | 434.218326 | 349.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 28974.77 | 351.347879 | 314.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 27447.24 | 324.507118 | 188.0 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8290-FS-D(5) | **Injection Vial** | 50 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:32:29 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 131124.53 | 317.443696 | 811.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19850.80 | 292.302470 | 187.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 24620.52 | 338.548007 | 216.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 84346.58 | 296.990915 | 544.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 92740.48 | 293.389196 | 826.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 119635.41 | 298.163909 | 1599.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 123781.83 | 293.596710 | 14148.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 137841.73 | 326.561643 | 902.2 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 133621.79 | 336.183520 | 871.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 101606.64 | 302.660343 | 1935.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 39829.73 | 334.948818 | 618.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 32458.08 | 299.631950 | 448.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 34209.15 | 307.904420 | 252.0 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8288-FS(0) | **Injection Vial** | 51 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:43:21 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 109614.04 | 289.532912 | 1039.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17932.33 | 400.722337 | 135.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 20785.29 | 433.741981 | 152.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 70245.57 | 313.291220 | 138.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 90548.99 | 362.837329 | 384.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 90535.88 | 285.804898 | 345.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 91541.85 | 275.022066 | 353.6 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 111133.14 | 287.261240 | 486.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 116161.57 | 318.867736 | 532.3 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 79148.72 | 257.232767 | 1135.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 22381.24 | 285.632438 | 222.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 27885.19 | 390.653130 | 182.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 24209.58 | 330.684045 | 116.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS-D(3) | **Injection Vial** | 52 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:54:13 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 115179.27 | 307.315962 | 1087.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 15892.13 | 239.440795 | 195.9 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 20369.51 | 286.592697 | 180.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 85937.69 | 354.552523 | 241.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 108472.00 | 402.081106 | 486.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 106508.32 | 311.028438 | 659.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 102690.99 | 285.395987 | 527.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 117584.97 | 307.018340 | 689.2 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 118188.00 | 327.718212 | 944.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 88566.01 | 290.755905 | 1583.2 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 39893.98 | 343.273208 | 334.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 30590.80 | 288.946692 | 316.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 30293.52 | 278.987526 | 197.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS(0) | **Injection Vial** | 53 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:05:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 106345.01 | 299.377905 | 680.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17333.01 | 1066.312274 | 185.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 18944.66 | 1088.343240 | 239.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 66316.19 | 282.138591 | 160.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 62159.22 | 237.600612 | 393.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 59331.79 | 178.669329 | 521.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 29208.47 | 83.708658 | 293.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 96823.81 | 266.738983 | 613.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 104289.23 | 305.111400 | 471.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 73897.72 | 255.967216 | 1584.1 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 32391.97 | 1138.057985 | 253.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 19101.38 | 736.692258 | 187.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 7401.01 | 278.304679 | 68.1 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(3) | **Injection Vial** | 54 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:15:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 130619.15 | 340.539356 | 1139.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19367.41 | 584.179321 | 205.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21086.67 | 593.951919 | 259.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 98732.92 | 404.370678 | 307.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 99528.75 | 366.239637 | 599.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 95363.57 | 276.452057 | 1049.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 60583.15 | 167.142967 | 434.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 127663.15 | 325.707477 | 938.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 127761.38 | 346.159660 | 808.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 96416.65 | 309.288090 | 1950.7 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 45638.62 | 786.183024 | 425.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 27811.50 | 525.908108 | 262.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 17850.13 | 329.105447 | 194.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(5) | **Injection Vial** | 1 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:26:49 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 126265.66 | 312.408931 | 836.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 20540.35 | 400.619743 | 174.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 27153.11 | 494.552904 | 218.6 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 84057.08 | 333.963642 | 497.9 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 93725.64 | 334.566465 | 654.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 103124.07 | 290.004399 | 1216.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 90679.47 | 242.690326 | 866.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 126724.54 | 306.831964 | 794.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 132815.87 | 341.510862 | 811.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 96330.81 | 293.260824 | 1787.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 43584.63 | 485.483571 | 687.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 32441.18 | 396.672553 | 516.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 25595.09 | 305.140920 | 251.8 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(7) | **Injection Vial** | 2 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:37:41 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 121763.52 | 328.303392 | 661.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18766.53 | 358.444041 | 209.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21772.89 | 388.348812 | 233.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 86014.34 | 328.063763 | 634.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 93778.18 | 321.357380 | 785.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 110542.51 | 298.425806 | 1490.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 102589.63 | 263.578197 | 864.6 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 120473.92 | 317.872493 | 916.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 118723.89 | 332.669265 | 775.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 90083.88 | 298.851838 | 1917.2 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 39939.88 | 435.673050 | 430.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29039.07 | 347.720984 | 361.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 24848.18 | 290.102211 | 171.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(9) | **Injection Vial** | 3 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:48:34 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 130202.44 | 304.028239 | 739.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19347.29 | 259.284915 | 243.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 24678.71 | 308.850416 | 270.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 92452.31 | 324.105879 | 718.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 96109.97 | 302.716924 | 606.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 120932.91 | 300.077395 | 1532.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 116912.81 | 276.089468 | 1648.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 130745.71 | 298.761024 | 789.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 136076.08 | 330.212090 | 702.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 102690.03 | 295.035138 | 1647.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 34067.86 | 260.746568 | 544.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 32233.22 | 270.814388 | 377.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 35983.74 | 294.769535 | 308.8 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8320-FS(0) | **Injection Vial** | 6 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:21:11 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 93760.92 | 266.019109 | 697.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 15253.06 | 880.330764 | 185.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 15657.67 | 843.887648 | 174.6 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 51583.73 | 192.132326 | 415.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 41819.96 | 139.949173 | 462.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 48226.46 | 127.143061 | 529.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 30239.13 | 75.870954 | 638.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 93266.13 | 258.950429 | 667.2 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 96666.95 | 285.026579 | 641.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 70101.78 | 244.720700 | 1478.6 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 25759.63 | 849.073186 | 453.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 16167.99 | 584.999834 | 290.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 8394.95 | 296.159959 | 116.4 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(3) | **Injection Vial** | 7 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:32:03 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 113005.82 | 317.992205 | 1051.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19738.88 | 435.396784 | 197.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 22128.14 | 455.802038 | 229.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 81491.96 | 342.921504 | 746.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 84743.31 | 320.394063 | 706.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 86710.43 | 258.268197 | 1356.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 73791.09 | 209.171486 | 804.7 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 121468.50 | 334.488383 | 2295.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 121755.75 | 356.058630 | 719.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 86173.04 | 298.358053 | 1672.1 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 38763.05 | 488.311870 | 656.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 28034.82 | 387.678236 | 402.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 24526.55 | 330.687966 | 194.4 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(5) | **Injection Vial** | 8 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:42:55 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 112398.89 | 312.234314 | 1166.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19169.62 | 396.027501 | 207.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 22955.50 | 442.860774 | 203.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 77744.61 | 343.341589 | 725.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 87319.16 | 346.469313 | 864.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 101278.50 | 316.586956 | 1104.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 100158.58 | 297.963378 | 1544.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 118678.26 | 322.620163 | 961.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 118433.06 | 341.906964 | 784.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 88813.21 | 303.561630 | 2007.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37220.41 | 439.146677 | 781.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29649.59 | 384.008943 | 473.0 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 28185.36 | 355.921795 | 196.6 | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8337-FS(0) | **Injection Vial** | 11 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:15:33 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 91008.96 | 243.302203 | 883.6 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 14642.05 | 346.591291 | 194.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 14839.77 | 328.028471 | 155.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 63104.62 | 227.822415 | 211.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 45722.02 | 148.306383 | 297.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 55164.49 | 140.966049 | 463.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 80129.68 | 194.871044 | 574.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 101094.02 | 264.477699 | 743.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 98845.18 | 274.621033 | 820.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 71091.19 | 233.845154 | 1790.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 27938.36 | 377.688069 | 249.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 15203.56 | 225.617033 | 183.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 24042.08 | 347.862036 | 197.1 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(3) | **Injection Vial** | 12 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:26:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 117731.14 | 319.955110 | 1186.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17540.98 | 277.005237 | 207.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 23848.57 | 351.694106 | 269.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 88177.28 | 369.980826 | 384.1 | true |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 85182.66 | 321.124018 | 798.3 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 97789.74 | 290.425961 | 772.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 109527.89 | 309.574976 | 861.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 117643.90 | 312.873518 | 1111.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 121358.78 | 342.756170 | 836.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 90870.14 | 303.857231 | 1295.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 42227.33 | 380.841664 | 482.7 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 28166.54 | 278.855140 | 362.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 35024.78 | 338.087218 | 271.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(5) | **Injection Vial** | 13 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:37:18 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 111666.74 | 312.442346 | 947.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16212.02 | 260.944567 | 186.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21748.35 | 326.893424 | 219.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 79355.78 | 333.970814 | 631.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 86645.76 | 327.624514 | 696.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 97074.27 | 289.170344 | 2754.3 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 110981.05 | 314.628023 | 1002.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 112482.61 | 307.987537 | 845.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 112341.90 | 326.666187 | 1006.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 84847.21 | 292.101832 | 1187.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 40301.18 | 370.463546 | 578.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 28364.98 | 286.222983 | 317.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 35686.85 | 351.106238 | 263.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(7) | **Injection Vial** | 14 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:48:10 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 117665.22 | 335.846075 | 1123.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17520.87 | 273.524663 | 169.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21564.64 | 314.377652 | 228.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 78291.45 | 329.099840 | 532.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 81699.65 | 308.555003 | 684.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 109269.41 | 325.110928 | 1155.3 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 106773.92 | 302.341038 | 876.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 113972.62 | 318.342336 | 1059.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 117856.32 | 349.591943 | 933.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 88766.34 | 311.739000 | 1509.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 33343.08 | 297.278277 | 593.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 29326.22 | 287.017157 | 390.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 35859.50 | 342.187532 | 272.9 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:20:46 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 104773.79 | 281.556557 | 725.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 14797.58 | 535.944807 | 186.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 16844.38 | 569.709008 | 200.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 48986.64 | 168.356088 | 421.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 41194.01 | 127.199194 | 413.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 59615.67 | 145.021134 | 796.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 48168.61 | 111.515154 | 466.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 97822.85 | 257.249762 | 694.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 110189.04 | 307.728522 | 748.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 71769.52 | 237.303246 | 1569.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 22608.00 | 467.636420 | 412.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 15533.41 | 352.701502 | 275.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 14834.00 | 328.402866 | 129.0 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(3) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:31:38 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 118678.10 | 317.538562 | 900.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18924.94 | 407.157475 | 188.3 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21690.58 | 435.780381 | 224.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 85005.05 | 359.065775 | 538.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 86795.86 | 329.402891 | 743.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 100624.45 | 300.851692 | 1471.0 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 97374.29 | 277.071704 | 952.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 124671.96 | 326.434761 | 811.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 121366.60 | 337.474895 | 645.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 98354.72 | 323.796214 | 1550.1 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 38849.47 | 477.341923 | 769.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 29273.70 | 394.835718 | 417.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 33910.90 | 445.950250 | 285.3 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(5) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:42:30 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 118599.18 | 293.084990 | 1142.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 21640.69 | 368.489702 | 223.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 22566.58 | 358.829903 | 249.6 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 84330.10 | 327.685685 | 664.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 89504.74 | 312.478377 | 642.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 108206.67 | 297.610695 | 1202.3 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 118985.93 | 311.450525 | 849.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 129965.26 | 314.297446 | 2014.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 122462.92 | 314.508849 | 706.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 92414.24 | 280.996838 | 2032.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 41261.81 | 401.253801 | 889.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 29914.52 | 319.335529 | 362.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 31514.88 | 328.011481 | 223.8 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(7) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:53:23 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 117016.91 | 294.216552 | 1259.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19181.33 | 345.649986 | 209.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 22144.20 | 372.637462 | 236.4 | true |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 78484.97 | 304.443191 | 669.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 84585.94 | 294.792928 | 1128.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 105596.44 | 289.927023 | 1840.9 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 108465.78 | 283.420417 | 994.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 127578.71 | 313.905122 | 1043.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 123589.25 | 322.935323 | 784.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 89946.04 | 278.260254 | 1719.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 38557.75 | 396.813191 | 882.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 27855.13 | 314.683438 | 411.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 31193.64 | 343.591991 | 208.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(9) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:04:15 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 120169.00 | 284.775593 | 1542.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 20249.33 | 310.271758 | 189.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 23935.13 | 342.480682 | 218.9 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 81025.61 | 299.495422 | 634.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 91416.66 | 303.593387 | 746.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 120131.19 | 314.299221 | 1467.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 113291.29 | 282.086950 | 765.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 133078.17 | 308.616299 | 1085.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 138819.95 | 341.883864 | 1139.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 96967.15 | 282.738955 | 1641.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 38730.72 | 338.925145 | 889.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 28983.97 | 278.419972 | 447.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 34347.45 | 321.695737 | 243.4 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS(0) | **Injection Vial** | 22 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:15:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 95847.84 | 268.465141 | 639.5 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18268.96 | 373.521487 | 157.3 | true |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19680.52 | 375.756993 | 180.2 | true |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 58122.45 | 163.540758 | 115.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 76496.94 | 193.386079 | 278.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 63633.23 | 126.731826 | 336.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 81126.61 | 153.767311 | 350.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 102481.60 | 280.900936 | 756.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 103548.52 | 301.415707 | 552.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 53982.05 | 186.039696 | 1118.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 20017.51 | 233.737537 | 240.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 23480.09 | 300.962628 | 182.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 23356.03 | 291.890570 | 154.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(3) | **Injection Vial** | 23 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:26:01 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 118684.35 | 290.178856 | 950.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 20341.95 | 280.907776 | 232.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21449.07 | 276.597541 | 189.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 90507.94 | 367.195434 | 330.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 95885.00 | 349.510625 | 691.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 111019.74 | 318.808906 | 727.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 114909.70 | 314.040683 | 627.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 121489.67 | 290.678807 | 849.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 120713.86 | 306.722632 | 631.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 89907.95 | 270.471243 | 1397.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 43589.62 | 343.772318 | 419.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 29403.46 | 254.554321 | 357.4 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 34154.06 | 288.292030 | 248.6 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:58:39 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 94435.21 | 276.441474 | 778.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 12702.57 | 309.906781 | 140.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19127.14 | 435.770907 | 184.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 41984.48 | 128.940660 | 136.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 39130.30 | 107.972557 | 303.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 58997.92 | 128.250037 | 447.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 85573.10 | 177.034136 | 498.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 104671.04 | 299.845455 | 1036.2 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 100060.25 | 304.401772 | 721.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 67071.35 | 241.577746 | 1197.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 18333.81 | 255.451860 | 255.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 16558.01 | 253.255325 | 199.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 24261.64 | 361.808619 | 165.9 | true |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(3) | **Injection Vial** | 27 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:09:29 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 120136.50 | 303.134611 | 913.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 16660.44 | 248.634769 | 186.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 22682.89 | 316.113125 | 229.6 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 87729.78 | 317.968997 | 345.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 92189.72 | 300.205982 | 659.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 104826.73 | 268.923922 | 1147.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 112969.61 | 275.815070 | 800.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 124424.66 | 307.233601 | 1343.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 125881.85 | 330.095826 | 654.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 89648.11 | 278.325102 | 1378.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 43839.63 | 373.644875 | 500.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 29097.62 | 272.235028 | 408.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 38569.65 | 351.836073 | 373.2 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:20:22 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 137273.31 | 303.077250 | 1424.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 22619.82 | 306.950417 | 242.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 28224.07 | 357.657570 | 228.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 90202.60 | 301.245580 | 424.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 106176.36 | 318.587378 | 769.3 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 124532.22 | 294.376427 | 3466.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 132326.70 | 297.692397 | 962.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 142086.33 | 306.987865 | 999.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 142387.59 | 326.704956 | 949.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 101609.97 | 276.028683 | 1604.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 44503.28 | 344.895675 | 487.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 34112.55 | 290.204511 | 403.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 42426.26 | 351.911147 | 272.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8330-FS-D(7) | **Injection Vial** | 29 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:31:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 105925.81 | 312.912622 | 897.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 15205.55 | 247.588959 | 211.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19712.37 | 299.734439 | 214.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 67916.87 | 295.829397 | 810.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 72736.61 | 284.653036 | 571.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 98507.57 | 303.705713 | 3152.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 98329.93 | 288.514743 | 699.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 108122.71 | 312.564675 | 673.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 111342.45 | 341.820762 | 666.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 75714.14 | 275.200339 | 1254.1 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 30313.97 | 281.895772 | 514.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 25272.86 | 257.985028 | 289.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 30750.69 | 306.057599 | 223.6 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8331-FS(0) | **Injection Vial** | 30 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:42:06 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 85873.66 | 260.922606 | 756.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 11611.05 | 225.401689 | 147.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 16898.55 | 306.340019 | 201.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.82 | 43276.56 | 143.482287 | 127.8 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 42045.07 | 125.244818 | 263.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 60384.71 | 141.707273 | 507.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 89237.37 | 199.301664 | 629.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 92150.55 | 274.000501 | 884.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 90558.22 | 285.953888 | 567.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 70007.94 | 261.727712 | 1070.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 17755.34 | 196.848141 | 240.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 16548.84 | 201.402123 | 174.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 26082.63 | 309.496805 | 205.6 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(5) | **Injection Vial** | 32 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:03:51 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 111729.12 | 316.392277 | 848.5 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17262.95 | 264.754182 | 174.3 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19446.38 | 278.506369 | 165.9 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 73676.24 | 309.340857 | 539.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 81283.40 | 306.627272 | 573.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 99708.26 | 296.319755 | 1494.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 101333.11 | 286.602390 | 982.6 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 116995.55 | 324.213095 | 1049.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 117653.35 | 346.242326 | 886.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 81313.54 | 283.317264 | 1372.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 35438.31 | 310.396858 | 558.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 26416.91 | 253.992399 | 355.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 30948.86 | 290.129244 | 237.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(7) | **Injection Vial** | 33 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:14:43 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 109474.42 | 326.596166 | 838.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18613.81 | 323.289887 | 257.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19911.61 | 322.947536 | 218.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 72156.26 | 315.739042 | 616.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 76317.20 | 300.037685 | 553.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 100698.36 | 311.886309 | 46189.0 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 104491.95 | 308.003548 | 746.6 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 111105.77 | 324.367072 | 967.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 108131.38 | 335.248266 | 742.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 82839.15 | 304.077811 | 1386.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 32000.13 | 317.413490 | 899.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 24536.88 | 267.169694 | 327.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 27935.02 | 296.568574 | 212.5 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:47:21 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 106260.54 | 291.642198 | 619.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17118.41 | 504.164711 | 161.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 17920.58 | 492.867238 | 175.4 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 49910.96 | 165.219133 | 541.8 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 44823.12 | 133.310873 | 646.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 55464.84 | 129.957657 | 1333.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 50610.76 | 112.856331 | 574.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 98553.97 | 264.700131 | 997.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 94701.78 | 270.117600 | 646.5 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 82843.01 | 279.759527 | 1252.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 21999.92 | 370.038413 | 380.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 15759.10 | 290.972273 | 287.1 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 16374.58 | 294.780333 | 146.3 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:58:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 109486.28 | 281.599286 | 1127.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 18818.61 | 363.707449 | 182.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 20460.01 | 369.265822 | 259.6 | true |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 78816.03 | 326.903999 | 561.9 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 79573.75 | 296.534077 | 593.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 90078.37 | 264.451384 | 874.0 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 95521.90 | 266.886876 | 8529.6 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 113676.00 | 286.116108 | 943.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 116934.60 | 312.558442 | 552.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 86727.39 | 274.459833 | 2139.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37796.01 | 417.183478 | 488.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 24561.12 | 297.593695 | 372.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 28384.81 | 335.327968 | 197.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(5) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:09:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 114648.80 | 280.108426 | 761.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 18937.94 | 290.945948 | 226.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 23214.65 | 333.050747 | 277.9 | true |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 80983.88 | 306.951822 | 700.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 86346.55 | 294.046309 | 664.3 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 109682.06 | 294.257050 | 1166.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 112180.70 | 286.423330 | 1092.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 119643.44 | 286.053483 | 1109.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 121190.46 | 307.709881 | 546.2 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 87159.69 | 262.013093 | 1619.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37270.31 | 327.008635 | 507.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 28658.99 | 276.026928 | 327.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 33771.28 | 317.136521 | 309.3 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(7) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:20:00 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 111750.29 | 316.916979 | 1344.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 20658.42 | 353.139128 | 274.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 17857.96 | 285.068524 | 208.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 72046.66 | 304.783053 | 547.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 79391.07 | 301.750310 | 545.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 96270.15 | 288.262585 | 115970.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 111989.03 | 319.132513 | 968.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 113948.88 | 316.234024 | 1212.1 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 119593.34 | 352.468430 | 1013.8 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 81273.92 | 283.595087 | 1630.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 32860.57 | 320.804419 | 653.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 26056.12 | 279.234697 | 469.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 32436.88 | 338.927598 | 242.7 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 40 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:30:53 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 113382.84 | 297.274848 | 864.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 20729.75 | 524.274939 | 153.0 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 18811.76 | 444.286480 | 223.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 50399.05 | 155.866791 | 451.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 47511.28 | 132.016159 | 473.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 62319.96 | 136.420015 | 807.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 57955.34 | 120.737820 | 555.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 100520.23 | 257.908721 | 864.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 98989.64 | 269.722362 | 622.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 80330.73 | 259.145233 | 1506.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 22737.10 | 328.410277 | 508.3 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 16434.17 | 260.569561 | 303.8 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 17328.40 | 267.881464 | 150.7 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(5) | **Injection Vial** | 42 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:52:40 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 3.99 | 108112.01 | 305.590903 | 857.7 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 16708.73 | 313.856287 | 186.9 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 19671.49 | 345.059001 | 212.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 78243.07 | 338.348878 | 910.6 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 79361.02 | 308.336670 | 932.8 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 99279.23 | 303.876339 | 1400.9 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 98801.63 | 287.807153 | 912.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 115348.37 | 319.065352 | 1056.5 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 112534.23 | 330.573108 | 740.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 77989.89 | 271.241090 | 1669.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 35609.12 | 382.001714 | 867.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 25668.00 | 302.266734 | 631.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 32237.40 | 370.140502 | 225.2 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(7) | **Injection Vial** | 43 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:03:32 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 109563.40 | 282.278488 | 831.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 18717.08 | 276.229545 | 255.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 21474.55 | 295.954351 | 193.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 79601.55 | 318.033361 | 702.3 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 85974.70 | 308.617766 | 885.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 107041.43 | 302.707178 | 1897.1 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.03 | 111023.36 | 298.802440 | 980.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 118938.60 | 299.872624 | 770.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 119992.79 | 321.280089 | 802.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 84886.47 | 269.092388 | 1611.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 33633.31 | 283.477327 | 869.8 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.25 | 27870.22 | 257.859599 | 319.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 33953.96 | 306.296213 | 255.0 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8322-FS(0) | **Injection Vial** | 46 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:36:09 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 89471.37 | 293.666243 | 861.3 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 14386.29 | 2101.686066 | 187.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 16381.87 | 2234.864291 | 172.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 18560.72 | 22.622531 | 264.8 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 12813.13 | 14.031391 | 267.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 21409.92 | 18.470599 | 284.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.03 | 15966.34 | 13.109025 | 273.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 91090.38 | 292.579663 | 607.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 94392.23 | 321.975314 | 480.9 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 65837.06 | 265.883295 | 1978.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 8420.69 | 702.560215 | 205.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.25 | 17393.62 | 1593.015576 | 213.3 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 3877.66 | 346.264119 | 46.5 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8322-FS-D(7) | **Injection Vial** | 49 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:08:47 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 117273.38 | 328.853317 | 772.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 18598.29 | 365.976213 | 251.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 21965.94 | 403.643815 | 227.1 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 72443.87 | 300.293446 | 645.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 77915.52 | 290.179864 | 497.3 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 99834.76 | 292.917732 | 1245.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 101487.18 | 283.383157 | 978.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 116283.51 | 319.096921 | 1153.9 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 108861.55 | 317.244191 | 782.8 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 84066.16 | 290.051191 | 1530.0 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 36179.54 | 406.592687 | 558.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 28083.64 | 346.452913 | 402.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 27608.22 | 332.075996 | 207.6 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:56:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 4650.27 | < 0 | 35.7 | true |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 1543.16 | < 0 | 27.0 | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 6241.38 | 6.137052 | 20.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 1296.56 | < 0 | 20.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.70 | 7733.59 | < 0 | 20.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.70 | 663.55 | < 0 | 19.9 | false |
| PFNA_1 | 463.0 / 419.0 | 3.10 | 6565.33 | < 0 | 34.0 | false |
| PFNA_2 | 463.0 / 219.0 | 3.10 | 2301.01 | < 0 | 34.7 | false |
| PFOS_1 | 499.0 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFOS_2 | 499.0 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFDA_1 | 513.0 / 469.0 | 3.46 | 5592.88 | < 0 | 35.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.48 | 592.26 | < 0 | 17.9 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | 5036.33 | < 0 | 63.5 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.07 | 951.74 | < 0 | 26.1 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.32 | 4811.21 | < 0 | 133.6 | true |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | 466.34 | < 0 | 22.0 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | 5592.95 | < 0 | 180.0 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | 379.25 | < 0 | 37.4 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | IB | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:20:17 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFBS_2 | 298.9 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_1 | 313.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFHxA_2 | 313.0 / 119.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_1 | 363.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_2 | 399.0 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFOA_1 | 413.0 / 369.0 | N/A | N/A | N/A | N/A | true |
| PFOA_2 | 413.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFNA_1 | 463.0 / 419.0 | 3.09 | 1775.31 | < 0 | 13.1 | false |
| PFNA_2 | 463.0 / 219.0 | 3.26 | 589.19 | < 0 | 9.9 | false |
| PFOS_1 | 499.0 / 80.0 | N/A | N/A | N/A | N/A | true |
| PFOS_2 | 499.0 / 99.0 | N/A | N/A | N/A | N/A | true |
| PFDA_1 | 513.0 / 469.0 | 3.46 | 1016.71 | < 0 | 12.0 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | 3.44 | 1482.88 | < 0 | 20.6 | false |
| PFDoA_2 | 613.0 / 319.0 | 3.56 | 319.89 | < 0 | 11.7 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | 433.34 | < 0 | 16.2 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | 375.47 | < 0 | 24.3 | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | 193.10 | < 0 | 22.5 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(11) | **Injection Vial** | 14 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:30:40 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 33860.85 | 50.911350 | 80.6 | true |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 10396.51 | 42.723279 | 56.6 | true |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 99522.71 | 200.294761 | 13.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 5634.97 | 167.509637 | 6.4 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 12033.67 | < 0 | 12.6 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.28 | 323.38 | < 0 | 8.4 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 362441.23 | 591.576664 | 238.3 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 103729.74 | 597.473300 | 299.1 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 51523.95 | 64.630996 | 78.2 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 3636.19 | 41.201099 | 61.8 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 3388.89 | < 0 | 18.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 2084.70 | < 0 | 29.6 | false |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 2564325.62 | 3119.047073 | 364.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 418544.49 | 2916.679984 | 633.9 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 4746.76 | < 0 | 30.9 | false |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 211.81 | < 0 | 22.8 | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 824.61 | < 0 | 26.5 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(9) | **Injection Vial** | 15 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:41:32 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 25949.89 | 27.186371 | 68.5 | true |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 8984.94 | 23.828261 | 47.9 | true |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 100815.41 | 202.904897 | 15.1 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 6781.56 | 206.418074 | 6.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 14782.32 | 0.927154 | 16.8 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 695.30 | 14.921365 | 15.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 473966.42 | 747.085962 | 305.5 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 138003.77 | 769.813990 | 364.3 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 97970.46 | 137.608284 | 127.1 | false |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 7516.35 | 139.461693 | 101.0 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 6189.97 | < 0 | 30.9 | false |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 2443.91 | < 0 | 26.8 | false |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 3629289.72 | 4097.117491 | 441.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 600349.06 | 3881.865412 | 711.5 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 9204.66 | < 0 | 50.6 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 2028.76 | < 0 | 16.6 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(11) | **Injection Vial** | 16 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:52:24 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 118577.17 | 242.246565 | 181.8 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 37684.89 | 251.198787 | 142.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 147750.17 | 390.437676 | 20.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 8553.11 | 319.074696 | 8.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 23065.32 | 33.956755 | 20.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 846.82 | 56.001263 | 19.4 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 1169932.04 | 2375.623507 | 350.9 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 328189.14 | 2371.690129 | 554.7 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 108398.24 | 200.081296 | 136.8 | false |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 8861.56 | 234.010341 | 112.6 | false |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 7800.13 | < 0 | 40.0 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 2134.04 | < 0 | 30.7 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 2428415.38 | 3643.236769 | 239.8 | false |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 361182.38 | 3103.428104 | 416.2 | true |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 8320.90 | < 0 | 49.8 | false |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 412.11 | < 0 | 22.7 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 1620.81 | < 0 | 16.7 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(11) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:03:15 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 126918.19 | 257.252920 | 229.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 40106.63 | 265.683379 | 147.2 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 140676.76 | 369.515290 | 16.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 8582.52 | 320.649878 | 7.6 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 26836.78 | 42.779250 | 25.6 | false |
| PFHpA_2 | 363.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 1199931.86 | 2270.983236 | 371.7 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 346098.62 | 2331.390329 | 527.0 | false |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 111426.33 | 213.579378 | 133.0 | false |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 8655.96 | 235.580902 | 119.3 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 4183.49 | < 0 | 22.6 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 2108.51 | < 0 | 25.4 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 2602747.58 | 3718.736947 | 232.9 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 391846.85 | 3206.506612 | 436.1 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 5766.09 | < 0 | 41.5 | false |
| PFDA_2 | 513.0 / 219.0 | 3.38 | 315.00 | < 0 | 14.4 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 1565.58 | < 0 | 14.2 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 408.52 | < 0 | 24.6 | false |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(11) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:14:07 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 496292.12 | 1131.763414 | 588.5 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 157030.82 | 1203.535752 | 433.8 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 480705.66 | 1367.244890 | 42.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 28188.37 | 1089.603411 | 21.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 58460.43 | 153.692844 | 42.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 2133.49 | 274.555304 | 37.8 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 2398151.65 | 4729.051142 | 560.2 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 680980.62 | 4786.522293 | 787.4 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 175892.14 | 341.067296 | 196.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.63 | 13736.87 | 394.965141 | 127.4 | false |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 5855.33 | < 0 | 31.7 | false |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 1220.43 | < 0 | 19.3 | false |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 1379482.29 | 1882.612502 | 159.0 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 214214.47 | 1675.983056 | 290.2 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 7365.94 | < 0 | 54.2 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 393.95 | < 0 | 21.0 | false |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:24:58 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 36007496.40 | 89654.253721 | 4989.9 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 11367884.49 | 95887.456806 | 3748.3 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 30285719.01 | 105439.571445 | 394.7 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 1950393.61 | 90833.338782 | 324.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 3621388.57 | 15118.116143 | 296.7 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 96980.93 | 20296.941107 | 280.8 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 96941506.19 | 270419.433928 | 765.8 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 40827440.53 | 406537.490951 | 1021.8 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 7782991.48 | 25386.392813 | 818.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.60 | 735941.95 | 38016.760801 | 661.1 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 413005.87 | 1448.020987 | 328.0 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 137132.00 | 1585.614290 | 289.4 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 52727840.08 | 106794.025702 | 231.4 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 7291093.38 | 84503.790536 | 355.1 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 479092.92 | 1219.036800 | 344.2 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 21958.48 | 1287.071714 | 269.5 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 508369.28 | 1316.804069 | 422.9 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 24483.90 | 1229.778230 | 239.4 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 427081.76 | 1199.073197 | 445.7 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 67285.24 | 1196.378340 | 408.4 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 378904.73 | 1341.377439 | 779.5 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 25554.30 | 1389.610280 | 436.1 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 412729.37 | 1267.582773 | 1314.8 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 18119.42 | 1143.120375 | 628.0 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | 70991.46 | 1297.358387 | 990.3 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 36736.24 | 1217.879018 | 443.3 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 68676.48 | 1109.870710 | 808.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 5254.44 | 1353.960579 | 1157.3 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(9) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:35:49 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 568943.00 | 1216.760755 | 691.2 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 178188.07 | 1281.214534 | 458.4 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 544972.82 | 1560.751027 | 46.8 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 33491.68 | 1302.264581 | 27.0 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 73853.90 | 185.873754 | 56.2 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 2157.77 | 251.990085 | 35.4 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 2684542.01 | 5133.697207 | 579.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 734375.94 | 5005.588928 | 832.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 193351.29 | 355.226532 | 234.3 | false |
| PFOA_2 | 413.0 / 169.0 | 2.61 | 17330.87 | 483.517770 | 146.6 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 12763.23 | < 0 | 49.7 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 4771.77 | 0.723207 | 50.0 | false |
| PFOS_1 | 499.0 / 80.0 | 2.96 | 1133654.06 | 1592.044381 | 175.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 167825.31 | 1351.356913 | 231.1 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 14215.53 | < 0 | 78.0 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 936.85 | < 0 | 46.7 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 12766.62 | 16.418611 | 66.6 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 786.47 | < 0 | 19.5 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 9049.75 | < 0 | 84.2 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 925.60 | < 0 | 40.7 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 6806.79 | < 0 | 126.0 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 695.81 | < 0 | 38.3 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 9771.72 | < 0 | 162.6 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 425.49 | < 0 | 40.0 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 1677.59 | < 0 | 85.1 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 1084.48 | 10.163001 | 29.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 1944.09 | 32.173687 | 81.2 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | 168.68 | 18.410203 | 30.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(3) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:46:43 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 39333343.93 | 82178.414714 | 4535.6 | false |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 12722661.27 | 90048.863380 | 4404.4 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 34416328.40 | 109941.447754 | 426.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 2183996.33 | 93325.431304 | 388.5 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 3989785.38 | 13696.919797 | 306.5 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 97965.07 | 16851.916697 | 249.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 100801733.52 | 241928.700742 | 741.0 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 43511011.68 | 372768.590460 | 1137.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 8706158.25 | 23558.501327 | 907.7 | false |
| PFOA_2 | 413.0 / 169.0 | 2.60 | 805543.71 | 34518.549316 | 594.3 | true |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 449555.03 | 1309.143064 | 363.8 | false |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 145599.39 | 1398.231364 | 321.4 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 61120611.93 | 105188.714292 | 269.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 8544997.09 | 84153.158487 | 376.3 | true |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 557559.11 | 1212.330967 | 471.1 | false |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 24806.96 | 1240.360102 | 399.2 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 534259.83 | 1083.512804 | 415.1 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 27913.45 | 1093.666405 | 246.5 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 466439.54 | 1100.013933 | 369.9 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 70976.26 | 1057.819758 | 370.9 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 418311.50 | 1216.117075 | 808.0 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 26542.02 | 1181.304121 | 443.6 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 432585.14 | 1087.658141 | 1159.5 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 20575.31 | 1064.983245 | 807.7 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 80759.94 | 1337.546547 | 732.6 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | 41690.67 | 1252.243931 | 490.1 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 81505.24 | 1013.704976 | 699.2 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | 5512.66 | 1089.829383 | 1599.6 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(9) | **Injection Vial** | 22 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:57:34 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 614529.18 | 1320.003435 | 660.1 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 178848.28 | 1290.439841 | 446.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 583540.49 | 1517.669511 | 49.0 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 36419.92 | 1286.988336 | 30.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 73855.30 | 171.859620 | 55.3 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 2415.68 | 268.088937 | 42.9 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 2875939.71 | 5523.581153 | 586.6 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 805150.60 | 5512.845843 | 755.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 206141.50 | 386.526419 | 195.8 | false |
| PFOA_2 | 413.0 / 169.0 | 2.60 | 17213.88 | 487.192828 | 120.3 | true |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 15318.21 | < 0 | 51.4 | false |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 4399.89 | < 0 | 61.7 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 1240860.73 | 1395.980148 | 157.2 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 184288.41 | 1189.108166 | 216.7 | false |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 17057.25 | < 0 | 88.6 | false |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 735.97 | < 0 | 20.6 | false |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 8793.10 | 8.397407 | 58.4 | false |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 877.90 | < 0 | 25.6 | false |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 7851.26 | < 0 | 78.0 | false |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 1124.06 | < 0 | 44.3 | false |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 7515.34 | < 0 | 135.2 | false |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 528.78 | < 0 | 34.4 | false |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 9277.80 | < 0 | 150.9 | false |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 476.95 | < 0 | 46.5 | false |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | 1377.57 | < 0 | 218.6 | false |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | 663.49 | < 0 | 48.9 | false |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | 1811.97 | 31.171512 | 66.7 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.46 | 108.65 | 7.897849 | 238.4 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8322-FS-D(9) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:41:02 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 429742.07 | 828.051815 | 607.6 | false |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 135012.65 | 871.557143 | 344.1 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 650374.75 | 1515.996855 | 53.2 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 41717.62 | 1322.015252 | 34.8 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 70426.40 | 151.793270 | 44.0 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 2082.13 | 205.311975 | 37.4 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 3532253.81 | 6041.696771 | 868.0 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 1026099.32 | 6258.249311 | 808.2 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 275213.49 | 449.511806 | 235.4 | false |
| PFOA_2 | 413.0 / 169.0 | 2.61 | 24483.34 | 612.276824 | 160.5 | false |
| PFNA_1 | 463.0 / 419.0 | 3.03 | 3680.48 | < 0 | 19.3 | false |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 1540.57 | < 0 | 18.3 | false |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 5702038.13 | 6435.818886 | 308.7 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 831546.45 | 5373.222127 | 515.4 | true |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 3684.53 | < 0 | 31.2 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8289-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:02:44 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 306956.57 | 513.728634 | 50.6 | true |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 60162.39 | 324.744362 | 65.5 | false |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 895676.88 | 1949.678596 | 29.3 | false |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 61965.85 | 1829.249727 | 39.2 | false |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 493364.23 | 1044.024944 | 64.3 | false |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 12213.33 | 1268.344831 | 117.0 | false |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 1707745.89 | 2627.827081 | 217.5 | false |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 483776.78 | 2650.280267 | 456.6 | false |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 22765814.98 | 53179.988051 | 863.0 | false |
| PFOA_2 | 413.0 / 169.0 | 2.63 | 2035016.59 | 75300.572629 | 688.0 | false |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 20516.84 | 2.943156 | 31.2 | false |
| PFNA_2 | 463.0 / 219.0 | 3.03 | 4439.79 | < 0 | 33.5 | true |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 1872394.49 | 2781.361325 | 138.1 | false |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 317587.51 | 2703.476095 | 341.4 | false |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 9970.34 | < 0 | 28.7 | false |
| PFDA_2 | 513.0 / 219.0 | N/A | N/A | N/A | N/A | true |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 1274.81 | < 0 | 11.9 | false |
| PFUnA_2 | 563.0 / 269.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_1 | 613.0 / 569.0 | N/A | N/A | N/A | N/A | true |
| PFDoA_2 | 613.0 / 319.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_1 | 663.0 / 619.0 | N/A | N/A | N/A | N/A | true |
| PFTrDA_2 | 663.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_1 | 713.0 / 669.0 | N/A | N/A | N/A | N/A | true |
| PFTeDA_2 | 713.0 / 169.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:56:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 83079.49 | 247.640073 | 872.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 11529.03 | 200.727365 | 199.5 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.77 | 13317.62 | 213.867257 | 165.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.86 | 59314.56 | 231.163190 | 562.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.27 | 67798.15 | 233.144880 | 500.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.69 | 79306.14 | 229.747357 | 1614.2 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.09 | 85625.55 | 231.738269 | 7545.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 90551.24 | 266.917566 | 857.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.77 | 79330.22 | 250.961396 | 627.3 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 67708.22 | 239.490036 | 1647.5 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 25685.07 | 209.192727 | 431.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 22191.74 | 219.158063 | 311.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.08 | 27485.78 | 234.896323 | 217.0 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | IB | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:20:17 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.03 | 70325.07 | 236.544912 | 753.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.59 | 10056.44 | 192.880346 | 171.4 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.75 | 13317.74 | 235.601451 | 217.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 54756.12 | 252.795604 | 713.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 58132.13 | 236.812062 | 728.1 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 77724.36 | 266.735249 | 1595.0 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.07 | 66603.33 | 213.535382 | 955.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.42 | 71002.40 | 236.174053 | 1008.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.74 | 70732.42 | 252.501010 | 967.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.50 | 56695.46 | 226.292781 | 1397.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 21435.28 | 192.320204 | 411.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 18798.28 | 204.509769 | 233.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 22268.58 | 209.647856 | 213.8 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(11) | **Injection Vial** | 14 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:30:40 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 138851.39 | 288.060404 | 641.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18864.84 | 277.689217 | 179.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 23273.23 | 315.984954 | 245.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 98324.90 | 276.547136 | 787.7 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 105817.35 | 262.611168 | 1071.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 135422.87 | 283.128800 | 2278.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 133689.28 | 261.119484 | 991.4 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 141782.22 | 290.877943 | 1246.0 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 136016.87 | 299.479618 | 696.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 112324.10 | 276.519196 | 2145.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 40927.61 | 281.821663 | 576.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 39204.94 | 327.339948 | 385.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 43533.22 | 314.543636 | 313.9 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(9) | **Injection Vial** | 15 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:41:32 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 141226.24 | 293.226640 | 936.0 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18919.15 | 270.954334 | 202.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 24632.05 | 325.386204 | 313.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 98599.70 | 277.262715 | 560.1 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 110805.33 | 274.933233 | 849.9 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 147602.21 | 308.528390 | 3466.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 140514.68 | 274.394008 | 1026.3 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 149663.00 | 307.296905 | 1054.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 152568.60 | 336.197402 | 869.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 111322.79 | 274.278094 | 1520.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 48452.46 | 324.610455 | 420.1 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 40788.52 | 331.348418 | 374.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 46344.29 | 325.795557 | 316.2 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(11) | **Injection Vial** | 16 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:52:24 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 122076.38 | 290.884174 | 1007.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 17024.22 | 283.701638 | 193.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 21691.91 | 333.423567 | 241.5 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 83865.18 | 274.228358 | 697.5 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 92713.63 | 267.500743 | 902.6 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 119611.71 | 290.730625 | 1180.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 124090.83 | 281.778224 | 733.8 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 127343.54 | 300.068971 | 836.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 123320.19 | 311.862976 | 459.8 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 92807.20 | 262.415291 | 1577.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37284.87 | 290.655989 | 457.9 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 32178.40 | 304.166508 | 414.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 35222.56 | 288.117602 | 246.3 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(11) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:03:15 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 121161.65 | 304.432671 | 878.5 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13673.90 | 218.765808 | 156.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 19518.62 | 288.031622 | 249.3 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 83772.14 | 271.849235 | 627.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 95983.75 | 274.838085 | 892.5 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 116232.88 | 280.377985 | 3312.4 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 117180.14 | 264.070313 | 1033.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 129317.05 | 321.319849 | 1047.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 122376.27 | 326.335587 | 848.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 93681.20 | 279.317087 | 1617.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37718.88 | 282.291593 | 446.4 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 34475.88 | 312.863428 | 386.2 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 36563.38 | 287.136073 | 240.9 | false |

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Summary Quant Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(11) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:14:07 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 123073.52 | 309.557248 | 938.2 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 19048.43 | 293.870545 | 219.3 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 20517.46 | 291.960704 | 306.9 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 85649.11 | 285.249359 | 723.8 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 87644.49 | 257.559262 | 951.0 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 121010.89 | 299.579921 | 337.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 115749.58 | 267.706134 | 1053.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 122179.39 | 303.899510 | 771.3 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 123141.74 | 328.717479 | 1326.1 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 92455.84 | 275.949570 | 2962.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 35150.05 | 253.673480 | 588.0 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 33209.39 | 290.609802 | 367.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 38596.26 | 292.278235 | 266.7 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:24:58 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 95291.68 | 304.936480 | 929.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 12574.52 | 316.298804 | 158.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 15674.99 | 363.678253 | 232.0 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 72822.59 | 340.603639 | 728.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 68408.54 | 282.321626 | 653.4 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 78876.48 | 274.231301 | 1197.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 79946.04 | 259.667235 | 1075.2 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 99266.81 | 314.133430 | 1077.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 91502.56 | 310.762641 | 708.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 71791.18 | 272.611696 | 1423.9 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 32652.90 | 384.220010 | 570.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 23618.75 | 336.988768 | 355.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 25919.49 | 320.027172 | 210.8 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(9) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:35:49 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 126528.27 | 285.032559 | 1160.4 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 16592.77 | 244.344829 | 199.6 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 21965.36 | 298.350379 | 209.2 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 85481.44 | 273.185539 | 646.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 94754.27 | 267.199346 | 757.8 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 128175.75 | 304.493570 | 1685.6 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 119594.35 | 265.419965 | 931.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 127211.99 | 283.393979 | 855.8 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 131920.59 | 315.399235 | 847.6 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 98626.09 | 263.643890 | 1879.4 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37518.07 | 258.450223 | 524.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 34471.19 | 287.934065 | 347.5 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 37350.31 | 269.980816 | 326.6 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(3) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:46:43 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 113109.57 | 319.388233 | 1100.9 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 14191.16 | 296.220237 | 145.1 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 19878.67 | 382.726088 | 207.8 | true |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 79367.83 | 308.306645 | 595.8 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 83166.55 | 285.060987 | 617.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 95068.49 | 274.512021 | 975.9 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 95964.45 | 258.872430 | 847.1 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 116136.68 | 324.298288 | 1250.2 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 116741.46 | 349.853176 | 688.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 87261.64 | 292.389584 | 2025.8 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 38913.08 | 379.965842 | 429.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 27392.35 | 324.323529 | 330.7 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 31131.79 | 318.974021 | 232.2 | false |

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Summary Quant Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(9) | **Injection Vial** | 22 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:57:34 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 134167.87 | 287.840004 | 742.1 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 17463.34 | 254.315610 | 244.2 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 21787.83 | 292.660184 | 283.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 94036.01 | 281.816615 | 657.2 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 101105.97 | 267.362135 | 678.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 126468.42 | 281.735057 | 1268.5 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 128303.82 | 267.023231 | 1793.9 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 142212.51 | 301.714460 | 1208.4 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 139347.27 | 317.279663 | 654.7 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 102611.68 | 261.227207 | 1458.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 37393.44 | 254.737674 | 514.6 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 34356.07 | 283.792917 | 311.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 45605.58 | 326.000337 | 355.7 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:03:37 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(9) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:41:02 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 149395.47 | 319.854284 | 1177.8 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 21707.47 | 283.051648 | 327.8 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 25103.26 | 301.918993 | 261.7 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 104917.66 | 310.139279 | 797.0 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 106644.86 | 278.162642 | 711.2 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 146821.45 | 322.614650 | 1383.7 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 144789.27 | 297.222451 | 3195.5 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 149396.60 | 316.308689 | 1091.6 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 153773.85 | 349.412447 | 1293.0 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 114443.95 | 290.754581 | 1533.2 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 41383.78 | 252.428666 | 567.5 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 38411.62 | 284.100166 | 353.9 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 46507.81 | 297.671096 | 375.8 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:03:50 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:02:44 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 144052.23 | 295.863967 | 1274.5 | false |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 18502.67 | 282.700049 | 275.7 | false |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 21270.30 | 299.756793 | 233.8 | false |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 113254.18 | 312.067535 | 226.4 | false |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 130625.28 | 317.593986 | 578.7 | false |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 110213.58 | 225.743802 | 749.8 | false |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 131262.18 | 251.171886 | 725.0 | false |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 145370.31 | 295.259227 | 699.7 | false |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 138431.32 | 301.750217 | 703.4 | false |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 98620.96 | 240.358955 | 1699.3 | false |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 47087.28 | 336.548123 | 361.2 | false |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 40505.75 | 351.043175 | 272.6 | false |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 35266.97 | 264.492865 | 233.6 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:06:41 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 10007.21 | 20.457445 | 28.3 | false |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 2107.71 | 23.036162 | 36.0 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:06:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(13) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:46:05 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 2.93 | 9462116.04 | 13280.795856 | 563.2 | false |
| PFOS_2 | 499.0 / 99.0 | 2.97 | 1069526.42 | 8646.390919 | 498.9 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:06:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 26831.98 | 229.467599 | 276.5 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:06:10 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(13) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:46:05 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 34816.92 | 259.147848 | 352.2 | false |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:07:35 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:07:40 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:27:43 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | N/A | N/A | N/A | true |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | N/A | N/A | N/A | true |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:07:53 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:03:07 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | 751864.53 | 16291.854330 | 1231.6 | false |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | 48191.20 | 17917.355732 | 711.4 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:07:07 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 17051.45 | 239.580705 | 212.6 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:07:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:27:43 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 11069.66 | 160.584720 | 190.1 | false |

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Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 1:07:19 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:03:07 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 12716.98 | 353.155333 | 222.8 | false |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 1:08:30 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:44:37 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.340 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | N/A | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.320 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.040 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.07 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.290 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.07 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.04 | PFOS | 0.110 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.43 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.090 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | PFTrDA | 0.080 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | PFTeDA | 0.060 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.650 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 1:08:34 PM

| | | | |
|---|---|---|---|
| **Sample Name** | CR884PB-FS(0) | **Injection Vial** | 24 |
| **Sample ID** | Procedural Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:50:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | N/A | PFBS | N/A | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | N/A | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | N/A | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | N/A | PFHxS | N/A | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | N/A | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | N/A | PFNA | N/A | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.07 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.07 | PFOS | 0.310 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.43 | PFDA | 0.070 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | PFTrDA | 0.410 | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 1:08:39 PM

| | | | |
|---|---|---|---|
| **Sample Name** | CR885LCS-FS(0) | **Injection Vial** | 25 |
| **Sample ID** | Laboratory Control Sample | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:00:52 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.310 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.150 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.570 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.070 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8308-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-SO-FB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:11:44 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 1.030 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | N/A | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.320 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.360 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.060 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.71 | PFUnA | 0.100 | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.170 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.040 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8324-FS(0) | **Injection Vial** | 27 |
| **Sample ID** | VC-AQ-EB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:22:35 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.50 | PFBS | 0.990 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | N/A | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.300 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.200 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.060 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.130 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.090 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8323-FS(0) | **Injection Vial** | 28 |
| **Sample ID** | VC-AQ-FB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:33:27 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | N/A | PFBS | N/A | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.220 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.450 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.240 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.060 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.140 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS(0) | **Injection Vial** | 29 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:44:19 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.500 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.00 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.96 | PFNA | 0.400 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.96 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.440 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.35 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | |
| PFTrDA_1 | 663.0 / 619.0 | 4.24 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(3) | **Injection Vial** | 30 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:55:11 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.01 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.97 | PFNA | 0.450 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.01 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.140 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(5) | **Injection Vial** | 31 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:06:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.01 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.99 | PFNA | 0.430 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.04 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.130 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(7) | **Injection Vial** | 32 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:16:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.320 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | N/A | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | N/A | PFNA | N/A | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.05 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.130 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(9) | **Injection Vial** | 33 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:27:48 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.01 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | N/A | PFNA | N/A | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 3.04 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.130 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8309-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-SO-EB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:00:23 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | N/A | PFBS | N/A | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.050 | 0.024 | |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.380 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.67 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.380 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.43 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.140 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS(0) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:11:14 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.500 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.110 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.23 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.800 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.94 | PFNA | 0.390 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.91 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.03 | PFOS | 0.480 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(3) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:22:07 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.410 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.94 | PFNA | 0.410 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(5) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:32:59 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.97 | PFNA | 0.400 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.99 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.140 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(9) | **Injection Vial** | 41 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:54:43 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.040 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.98 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.93 | PFNA | 0.370 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.99 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS(0) | **Injection Vial** | 42 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:05:34 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.450 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.00 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.96 | PFNA | 0.430 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.400 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.37 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.030 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(3) | **Injection Vial** | 43 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:16:26 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.02 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.99 | PFNA | 0.390 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.00 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.190 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(7) | **Injection Vial** | 45 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:38:08 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.040 | 0.024 | |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.67 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.04 | PFNA | 0.360 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.05 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS(0) | **Injection Vial** | 48 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:10:45 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.340 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.02 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.190 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.27 | PFDA | 0.170 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | 3.71 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.230 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(3) | **Injection Vial** | 49 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:21:37 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.330 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.05 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | 4.00 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(5) | **Injection Vial** | 50 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:32:29 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.420 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.080 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.490 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 3.06 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.24 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS(0) | **Injection Vial** | 51 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:43:21 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.350 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.00 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.40 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | 3.99 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS-D(3) | **Injection Vial** | 52 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:54:13 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.330 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.310 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.01 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS(0) | **Injection Vial** | 53 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:05:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.330 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.090 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.580 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.98 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.94 | PFNA | 0.400 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.93 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.04 | PFOS | 0.510 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.36 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.26 | PFDA | 0.150 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.00 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(3) | **Injection Vial** | 54 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:15:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.390 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.99 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.94 | PFNA | 0.470 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.310 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.38 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.25 | PFDA | 0.100 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(5) | **Injection Vial** | 1 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:26:49 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.01 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.94 | PFNA | 0.410 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.01 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.34 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.28 | PFDA | 0.210 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(7) | **Injection Vial** | 2 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:37:41 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.00 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.02 | PFNA | 0.400 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.03 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(9) | **Injection Vial** | 3 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:48:34 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | N/A | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | N/A | PFNA | N/A | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.04 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS(0)) | **Injection Vial** | 6 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:21:11 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.500 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.100 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.23 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.780 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.94 | PFNA | 0.400 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.03 | PFOS | 0.480 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.32 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.25 | PFDA | 0.150 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(3) | **Injection Vial** | 7 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:32:03 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.400 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.95 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.93 | PFNA | 0.360 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.180 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.32 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.26 | PFDA | 0.230 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(5) | **Injection Vial** | 8 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:42:55 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.93 | PFNA | 0.500 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS(0) | **Injection Vial** | 11 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:15:33 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.480 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.090 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.800 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.94 | PFNA | 0.370 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.89 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.97 | PFOS | 0.170 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.060 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(3) | **Injection Vial** | 12 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:26:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.410 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.95 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.93 | PFNA | 0.390 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.96 | PFOS | 0.110 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(5) | **Injection Vial** | 13 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:37:18 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.320 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.98 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.97 | PFNA | 0.380 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.93 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.96 | PFOS | 0.110 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.120 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(7) | **Injection Vial** | 14 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:48:10 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.320 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.080 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.070 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | N/A | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | N/A | PFNA | N/A | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.00 | PFOS | 0.120 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:20:46 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.660 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.130 | 0.077 | |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.26 | PFHxS | 0.810 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.93 | PFNA | 0.420 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.95 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.290 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.33 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(3) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:31:38 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.330 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.430 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.92 | PFNA | 0.450 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.22 | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(5) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:42:30 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.330 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.97 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.92 | PFNA | 0.470 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 2.99 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.140 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(7) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:53:23 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.300 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.95 | PFNA | 0.660 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 2.99 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.32 | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(9) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:04:15 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.040 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.92 | PFNA | 0.250 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.99 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS(0) | **Injection Vial** | 22 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:15:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.290 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.080 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.97 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.91 | PFNA | 0.620 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 3.03 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.160 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(3) | **Injection Vial** | 23 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:26:01 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.340 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.260 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.00 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.92 | PFNA | 0.480 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 3.03 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:58:39 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.680 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.140 | 0.077 | |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.25 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | PFHxS | 0.870 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.95 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.93 | PFNA | 0.410 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.91 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.96 | PFOS | 0.130 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(3) | **Injection Vial** | 27 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:09:29 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.330 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.040 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.95 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.91 | PFNA | 0.550 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.95 | PFOS | 0.110 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.39 | PFDA | 0.360 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:20:22 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.340 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.95 | PFOS | 0.110 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.080 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(7) | **Injection Vial** | 29 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:31:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.440 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.96 | PFOS | 0.120 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.39 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS(0) | **Injection Vial** | 30 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:42:06 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.660 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.83 | PFHxA | 0.130 | 0.077 | |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | PFHxS | 0.870 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.64 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.95 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.92 | PFNA | 0.390 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.91 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.93 | PFOS | 0.110 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(5) | **Injection Vial** | 32 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:03:51 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.040 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | N/A | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | N/A | PFNA | N/A | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.93 | PFOS | 0.100 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(7) | **Injection Vial** | 33 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:14:43 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.040 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | N/A | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | N/A | PFNA | N/A | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.92 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.93 | PFOS | 0.120 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:47:21 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.680 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.140 | 0.077 | |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.26 | PFHxS | 0.840 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.320 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.95 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.260 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.170 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.540 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:58:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.320 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.430 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.310 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.96 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.140 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.530 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.070 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(5) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:09:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.310 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.310 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.140 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.170 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.570 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(7) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:20:00 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.300 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.060 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.180 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.540 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.71 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 40 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:30:53 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.700 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.150 | 0.077 | |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.010 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | PFHxS | 0.840 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.64 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.060 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.320 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.94 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.04 | PFOS | 0.270 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.550 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(5) | **Injection Vial** | 42 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:52:40 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.310 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.290 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.140 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.40 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.72 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.00 | PFDoA | 0.170 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.070 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | PFTeDA | 0.040 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.55 | NMeFOSAA | 0.580 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.71 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(7) | **Injection Vial** | 43 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:03:32 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.310 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.04 | PFNA | 0.340 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.04 | PFOS | 0.150 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.40 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.060 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.72 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | PFUnA | 0.060 | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.160 | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.060 | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.55 | NMeFOSAA | 0.400 | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.060 | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS(0) | **Injection Vial** | 46 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:36:09 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.57 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.860 | 0.304 | |
| PFHxA_1 | 313.0 / 269.0 | 1.90 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.290 | 0.077 | |
| PFHpA_1 | 363.0 / 319.0 | 2.22 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.020 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.36 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | PFHxS | 1.030 | 0.301 | |
| PFOA_1 | 413.0 / 369.0 | 2.61 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.090 | 0.061 | |
| PFNA_1 | 463.0 / 419.0 | 2.96 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.89 | PFNA | 0.480 | 0.310 | |
| PFOS_1 | 499.0 / 80.0 | 2.77 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.98 | PFOS | 3.960 | 0.179 | |
| PFDA_1 | 513.0 / 469.0 | 3.31 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(7) | **Injection Vial** | 49 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:08:47 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.300 | 0.304 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.077 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.030 | 0.024 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.320 | 0.301 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.050 | 0.061 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.98 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 2.92 | PFNA | 0.450 | 0.310 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.140 | 0.179 | ü |
| PFDA_1 | 513.0 / 469.0 | N/A | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.056 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.161 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.066 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.555 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.067 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:56:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.54 | PFBS | 0.330 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | N/A | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | PFHxS | 0.210 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.70 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.70 | PFOA | 0.090 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.10 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.10 | PFNA | 0.350 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | N/A | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | N/A | PFOS | N/A | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.46 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.48 | PFDA | 0.110 | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.07 | PFDoA | 0.190 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.32 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | PFTrDA | 0.100 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | PFTeDA | 0.070 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | IB | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:20:17 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | N/A | PFBS | N/A | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | N/A | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | N/A | PFHxA | N/A | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | N/A | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | N/A | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | N/A | PFHxS | N/A | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | N/A | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | N/A | PFOA | N/A | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.09 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.26 | PFNA | 0.330 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | N/A | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | N/A | PFOS | N/A | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.46 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 3.44 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 3.56 | PFDoA | 0.220 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(11) | **Injection Vial** | 14 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:30:40 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.310 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.28 | PFHpA | 0.030 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.070 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.620 | 0.301 | |
| PFOS_1 | 499.0 / 80.0 | 3.03 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.160 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.42 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(9) | **Injection Vial** | 15 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:41:32 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.350 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.070 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | PFHpA | 0.050 | 0.021 | |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.66 | PFOA | 0.080 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.07 | PFNA | 0.390 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.04 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.170 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(11) | **Injection Vial** | 16 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:52:24 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.320 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.040 | 0.021 | |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.65 | PFOA | 0.080 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.270 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.06 | PFOS | 0.150 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.42 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.43 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(11) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:03:15 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.320 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | N/A | PFHpA | N/A | 0.021 | |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.66 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.64 | PFOA | 0.080 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.500 | 0.301 | |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.150 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.38 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(11) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:14:07 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.320 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.040 | 0.021 | |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.63 | PFOA | 0.080 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.04 | PFNA | 0.210 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.98 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.160 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:24:58 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.320 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.030 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.420 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.60 | PFOA | 0.090 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.330 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.140 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.050 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.160 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.040 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.520 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.080 | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(9) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:35:49 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.310 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | PFHpA | 0.030 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.270 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.61 | PFOA | 0.090 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.370 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.96 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.150 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.070 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.060 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.100 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | PFTrDA | 0.100 | 0.067 | |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | PFTeDA | 0.040 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.650 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | NEtFOSAA | 0.090 | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(3) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:46:43 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.320 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.430 | 0.285 | |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.60 | PFOA | 0.090 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.06 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.06 | PFNA | 0.320 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.140 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.41 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.050 | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.150 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.060 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | NMeFOSAA | 0.520 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | NEtFOSAA | 0.070 | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(9) | **Injection Vial** | 22 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:57:34 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.290 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.030 | 0.021 | |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.60 | PFOA | 0.080 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.05 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.05 | PFNA | 0.290 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.150 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.40 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | 3.40 | PFDA | 0.040 | 0.044 | ü |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | PFUnA | 0.100 | 0.055 | |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | PFDoA | 0.140 | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | PFTrDA | 0.070 | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | PFTeDA | 0.050 | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | NMeFOSAA | 0.480 | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.46 | NEtFOSAA | 0.060 | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(9) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:41:02 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.52 | PFBS | 0.310 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.060 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | PFHpA | 0.030 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.290 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.61 | PFOA | 0.090 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 3.03 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.04 | PFNA | 0.420 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 2.97 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.150 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.40 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | N/A | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | ü |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:02:44 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | PFBS | | | |
| PFBS_2 | 298.9 / 99.0 | 1.53 | PFBS | 0.200 | 0.302 | ü |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | PFHxA | | | |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | PFHxA | 0.070 | 0.071 | ü |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | PFHpA | | | |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | PFHpA | 0.020 | 0.021 | ü |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | PFHxS | | | |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | PFHxS | 0.280 | 0.285 | ü |
| PFOA_1 | 413.0 / 369.0 | 2.65 | PFOA | | | |
| PFOA_2 | 413.0 / 169.0 | 2.63 | PFOA | 0.090 | 0.067 | ü |
| PFNA_1 | 463.0 / 419.0 | 2.98 | PFNA | | | |
| PFNA_2 | 463.0 / 219.0 | 3.03 | PFNA | 0.220 | 0.301 | ü |
| PFOS_1 | 499.0 / 80.0 | 3.03 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.05 | PFOS | 0.170 | 0.174 | ü |
| PFDA_1 | 513.0 / 469.0 | 3.41 | PFDA | | | |
| PFDA_2 | 513.0 / 219.0 | N/A | PFDA | N/A | 0.044 | |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | PFUnA | | | |
| PFUnA_2 | 563.0 / 269.0 | N/A | PFUnA | N/A | 0.055 | |
| PFDoA_1 | 613.0 / 569.0 | N/A | PFDoA | | | |
| PFDoA_2 | 613.0 / 319.0 | N/A | PFDoA | N/A | 0.159 | ü |
| PFTrDA_1 | 663.0 / 619.0 | N/A | PFTrDA | | | |
| PFTrDA_2 | 663.0 / 169.0 | N/A | PFTrDA | N/A | 0.067 | ü |
| PFTeDA_1 | 713.0 / 669.0 | N/A | PFTeDA | | | |
| PFTeDA_2 | 713.0 / 169.0 | N/A | PFTeDA | N/A | 0.049 | ü |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | NMeFOSAA | | | |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | NMeFOSAA | N/A | 0.543 | ü |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.065 | ü |

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Summary Ion Ratio Report

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Printed: 22/10/2018 1:19:02 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 3.11 | PFOS | 0.210 | 0.174 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 1:19:05 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(13) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:46:05 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 2.93 | PFOS | | | |
| PFOS_2 | 499.0 / 99.0 | 2.97 | PFOS | 0.110 | 0.174 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 1:20:32 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.062 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 1:20:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:27:43 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | NEtFOSAA | N/A | 0.062 | ü |

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Summary Ion Ratio Report

Created with Analyst Reporter
Printed: 22/10/2018 1:20:52 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:03:07 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Results Summary

| Analyte | MRM Transition | RT | Ratio Group | Calculated Ion ratio | Expected Ion Ratio | Ratio OK |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | NEtFOSAA | | | |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | NEtFOSAA | 0.060 | 0.062 | ü |

BATTELLE

Summary Internal Standard Report

Created with Analyst Reporter
Printed: 22/10/2018 1:26:15 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:44:37 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.55 | 13C3-PFBS | 302.0 / 99.0 | 25275.30 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 25275.30 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 64119.13 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 64119.13 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 72671.62 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 72671.62 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.29 | 13C3-PFHxS | 402.0 / 99.0 | 25520.71 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 25520.71 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 93052.42 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 93052.42 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 93986.95 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 93986.95 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 25760.59 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 25760.59 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 97963.09 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 97963.09 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 103237.53 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 103237.53 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.03 | 13C2-PFDoA | 615.0 / 570.0 | 101711.53 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 101711.53 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 78755.15 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 78755.15 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.49 | 13C2-PFTeDA | 715.0 / 670.0 | 78755.15 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.49 | 13C2-PFTeDA | 715.0 / 670.0 | 78755.15 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.58 | d3-MeFOSAA | 573.0 / 419.0 | 15732.66 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 15732.66 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 19054.11 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.78 | d5-EtFOSAA | 589.0 / 419.0 | 19054.11 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | CR884PB-FS(0) | **Injection Vial** | 24 |
| **Sample ID** | Procedural Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:50:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 31912.76 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 31912.76 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 78471.35 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 78471.35 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 87210.82 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 87210.82 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | N/A | 13C3-PFHxS | 402.0 / 99.0 | 28854.22 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | N/A | 13C3-PFHxS | 402.0 / 99.0 | 28854.22 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 112021.23 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 112021.23 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 101834.30 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 101834.30 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 31555.73 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.07 | 13C8-PFOS | 507.0 / 99.0 | 31555.73 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 118763.69 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 118763.69 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 113983.15 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 113983.15 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 112372.28 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 112372.28 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 85873.12 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 85873.12 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 85873.12 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 85873.12 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19640.65 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19640.65 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20511.89 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20511.89 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | CR885LCS-FS(0) | **Injection Vial** | 25 |
| **Sample ID** | Laboratory Control Sample | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:00:52 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 35827.03 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 35827.03 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 76679.34 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 76679.34 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 83211.15 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 83211.15 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 26015.49 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 26015.49 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 95734.01 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 95734.01 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 94239.80 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 94239.80 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 32400.84 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 32400.84 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 108667.01 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 108667.01 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 114868.55 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 114868.55 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 113466.20 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 113466.20 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 88414.30 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 88414.30 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 88414.30 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 88414.30 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 19668.62 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 19668.62 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 18016.29 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 18016.29 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8308-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-SO-FB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:11:44 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 29361.66 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 29361.66 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 75658.36 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 75658.36 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 82522.80 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 82522.80 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28868.38 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28868.38 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 100213.19 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 100213.19 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 100305.84 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 100305.84 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 36041.00 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 36041.00 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 105183.44 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 105183.44 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 111952.41 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.71 | 13C7-PFUnA | 570.0 / 525.0 | 111952.41 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 107380.05 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 107380.05 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 78742.01 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 78742.01 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 78742.01 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 78742.01 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17411.99 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17411.99 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 18996.79 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 18996.79 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8324-FS(0) | **Injection Vial** | 27 |
| **Sample ID** | VC-AQ-EB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:22:35 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 31263.19 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.50 | 13C3-PFBS | 302.0 / 99.0 | 31263.19 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 74983.36 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 74983.36 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 82639.13 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 82639.13 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28881.46 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28881.46 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 100014.09 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 100014.09 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 104355.20 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 104355.20 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 30323.76 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 30323.76 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 120030.53 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 120030.53 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 115667.99 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 115667.99 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 113027.90 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 113027.90 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 98808.23 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 98808.23 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 98808.23 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 98808.23 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15853.51 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15853.51 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19889.85 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19889.85 | 250.00 |

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Summary Internal Standard Report

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Printed: 22/10/2018 1:26:35 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8323-FS(0) | **Injection Vial** | 28 |
| **Sample ID** | VC-AQ-FB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:33:27 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 32138.00 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 32138.00 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 79178.93 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 79178.93 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 87813.87 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.27 | 13C4-PFHpA | 367.0 / 322.0 | 87813.87 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 30752.71 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 30752.71 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 106725.04 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 106725.04 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 112421.74 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 112421.74 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 35619.62 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 35619.62 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 120360.85 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 120360.85 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 116386.61 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 116386.61 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 110718.59 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 110718.59 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 91400.12 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 91400.12 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 91400.12 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 91400.12 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16331.60 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16331.60 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20249.33 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20249.33 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS(0) | **Injection Vial** | 29 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:44:19 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 27389.21 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 27389.21 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 70588.29 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 70588.29 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 71816.22 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 71816.22 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 19988.80 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 19988.80 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 78395.49 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 78395.49 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 13C9-PFNA | 472.0 / 427.0 | 37474.33 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 37474.33 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.96 | 13C8-PFOS | 507.0 / 99.0 | 11613.11 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 11613.11 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.35 | 13C6-PFDA | 519.0 / 474.0 | 96472.46 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 96472.46 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 106143.11 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 106143.11 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 106049.28 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 106049.28 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.24 | 13C2-PFTeDA | 715.0 / 670.0 | 74138.70 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 74138.70 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 74138.70 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 74138.70 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16552.75 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16552.75 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 18821.57 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 18821.57 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(3) | **Injection Vial** | 30 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:55:11 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 42693.66 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 42693.66 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 86057.09 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 86057.09 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 102249.55 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 102249.55 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28962.83 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28962.83 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 103717.64 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 103717.64 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 13C9-PFNA | 472.0 / 427.0 | 85537.38 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.97 | 13C9-PFNA | 472.0 / 427.0 | 85537.38 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 13C8-PFOS | 507.0 / 99.0 | 23716.63 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 23716.63 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 126491.86 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 126491.86 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 123119.97 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 123119.97 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 119815.55 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 119815.55 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 93140.46 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 93140.46 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 93140.46 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 93140.46 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18735.50 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18735.50 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19961.19 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19961.19 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(5) | **Injection Vial** | 31 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:06:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 40636.20 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 40636.20 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 77617.74 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 77617.74 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 89005.22 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 89005.22 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28657.00 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28657.00 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 104098.01 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 104098.01 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 13C9-PFNA | 472.0 / 427.0 | 93028.85 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.99 | 13C9-PFNA | 472.0 / 427.0 | 93028.85 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 28717.98 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 28717.98 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 121833.19 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 121833.19 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 118728.92 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 118728.92 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 116324.45 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 116324.45 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90142.25 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90142.25 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90142.25 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90142.25 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19402.30 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19402.30 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22874.98 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22874.98 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(7) | **Injection Vial** | 32 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:16:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 34128.38 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 34128.38 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 78944.58 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 78944.58 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 80738.67 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 80738.67 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 26815.67 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 26815.67 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 108180.89 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 108180.89 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 107214.00 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 107214.00 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 33466.03 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 33466.03 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 115884.85 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 115884.85 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 114456.13 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 114456.13 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 114289.64 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 114289.64 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89925.40 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89925.40 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89925.40 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89925.40 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17522.68 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17522.68 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21462.38 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21462.38 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8285-FS-D(9) | **Injection Vial** | 33 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:27:48 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37709.89 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37709.89 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 74777.02 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 74777.02 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 89098.15 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 89098.15 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27349.59 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27349.59 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 97455.38 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 97455.38 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 13C9-PFNA | 472.0 / 427.0 | 99018.38 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 99018.38 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 29127.98 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 29127.98 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 120923.19 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 120923.19 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 115928.89 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 115928.89 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111291.64 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111291.64 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84030.59 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84030.59 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84030.59 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84030.59 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17910.00 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17910.00 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20086.16 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20086.16 | 250.00 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | J8309-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-SO-EB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:00:23 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 33258.80 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 33258.80 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 77062.95 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 77062.95 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 84194.38 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 84194.38 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28860.00 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28860.00 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 102168.14 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 102168.14 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 96827.69 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 96827.69 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 32053.09 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 32053.09 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 118545.66 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 118545.66 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 111158.49 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 111158.49 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 117159.08 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 117159.08 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 97285.12 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 97285.12 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 97285.12 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 97285.12 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19022.25 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19022.25 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19169.65 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19169.65 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS(0) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:11:14 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 26701.72 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 26701.72 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 58787.67 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 58787.67 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 44385.99 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 44385.99 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.23 | 13C3-PFHxS | 402.0 / 99.0 | 15264.40 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 15264.40 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 53126.08 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 53126.08 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 31428.04 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 13C9-PFNA | 472.0 / 427.0 | 31428.04 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.91 | 13C8-PFOS | 507.0 / 99.0 | 8694.32 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.03 | 13C8-PFOS | 507.0 / 99.0 | 8694.32 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 102588.78 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 102588.78 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 103731.46 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 103731.46 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 98271.65 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 98271.65 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.28 | 13C2-PFTeDA | 715.0 / 670.0 | 78174.30 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 78174.30 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 78174.30 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 78174.30 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15770.97 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15770.97 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20585.08 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20585.08 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(3) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:22:07 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37957.43 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37957.43 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 78364.37 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 78364.37 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 80468.93 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 80468.93 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27126.78 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27126.78 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 86198.67 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 86198.67 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 68555.73 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 13C9-PFNA | 472.0 / 427.0 | 68555.73 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 21271.58 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 21271.58 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 117152.74 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 117152.74 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 116827.43 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 116827.43 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 113594.96 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 113594.96 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 88460.37 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88460.37 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88460.37 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88460.37 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18433.80 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18433.80 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21136.12 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21136.12 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(5) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:32:59 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37024.44 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37024.44 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 76897.88 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 76897.88 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 90435.43 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 90435.43 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28760.28 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28760.28 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 103852.13 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 103852.13 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 101433.41 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.97 | 13C9-PFNA | 472.0 / 427.0 | 101433.41 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 13C8-PFOS | 507.0 / 99.0 | 30173.08 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 30173.08 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 120087.86 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 120087.86 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 125758.82 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 125758.82 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 114201.78 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 114201.78 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86638.88 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86638.88 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86638.88 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86638.88 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17557.50 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17557.50 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19695.08 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19695.08 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(9) | **Injection Vial** | 41 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:54:43 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 33945.19 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 33945.19 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 74536.65 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 74536.65 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 87939.42 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 87939.42 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27928.48 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27928.48 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 110670.85 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 110670.85 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 13C9-PFNA | 472.0 / 427.0 | 108290.67 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 13C9-PFNA | 472.0 / 427.0 | 108290.67 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 13C8-PFOS | 507.0 / 99.0 | 29159.31 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 29159.31 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 117260.45 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 117260.45 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 117618.74 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 117618.74 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 121741.61 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 121741.61 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89419.25 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89419.25 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89419.25 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89419.25 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17748.75 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17748.75 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22154.98 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22154.98 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8287-FS(0) | **Injection Vial** | 42 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:05:34 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 34357.46 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 34357.46 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 92241.73 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 92241.73 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 91302.02 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 91302.02 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31379.55 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31379.55 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 87156.37 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 87156.37 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 13C9-PFNA | 472.0 / 427.0 | 50719.88 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 50719.88 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 14412.24 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 14412.24 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.37 | 13C6-PFDA | 519.0 / 474.0 | 125231.29 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 125231.29 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 128634.38 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 128634.38 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 122343.73 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 122343.73 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 77771.84 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 77771.84 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 77771.84 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 77771.84 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16730.73 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16730.73 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23583.67 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23583.67 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(3) | **Injection Vial** | 43 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:16:26 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 40042.91 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 40042.91 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 90626.04 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 90626.04 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 95768.06 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 95768.06 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 29941.09 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 29941.09 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 95541.97 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 95541.97 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.02 | 13C9-PFNA | 472.0 / 427.0 | 75791.99 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.99 | 13C9-PFNA | 472.0 / 427.0 | 75791.99 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.00 | 13C8-PFOS | 507.0 / 99.0 | 19138.68 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 19138.68 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 115301.58 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 115301.58 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 115993.14 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 115993.14 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111028.84 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111028.84 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 84178.53 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84178.53 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84178.53 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84178.53 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18050.46 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18050.46 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21442.18 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21442.18 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(7) | **Injection Vial** | 45 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:38:08 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 36249.74 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 36249.74 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 75835.83 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 75835.83 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 81333.41 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 81333.41 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 25081.58 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 25081.58 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.67 | 13C8-PFOA | 421.0 / 376.0 | 105225.52 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 105225.52 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 106727.85 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 13C9-PFNA | 472.0 / 427.0 | 106727.85 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 30933.33 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 30933.33 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 115383.09 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 115383.09 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 111730.88 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 111730.88 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 107099.88 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 107099.88 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 85227.09 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 85227.09 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 85227.09 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 85227.09 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19012.41 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19012.41 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20533.00 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20533.00 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8290-FS(0) | **Injection Vial** | 48 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:10:45 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32325.85 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32325.85 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 82317.30 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 82317.30 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 105084.88 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 105084.88 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27140.29 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27140.29 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 92032.39 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 92032.39 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 80292.24 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 80292.24 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.02 | 13C8-PFOS | 507.0 / 99.0 | 22065.79 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 22065.79 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 102880.26 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.27 | 13C6-PFDA | 519.0 / 474.0 | 102880.26 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.71 | 13C7-PFUnA | 570.0 / 525.0 | 112692.63 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 112692.63 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 111357.84 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 111357.84 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 62761.71 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 62761.71 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 62761.71 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 62761.71 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16472.23 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16472.23 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19807.75 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19807.75 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8290-FS-D(3) | **Injection Vial** | 49 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:21:37 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 39308.38 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 39308.38 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 84942.64 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 84942.64 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 92190.84 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 92190.84 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28355.62 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28355.62 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 107601.72 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 107601.72 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 104828.65 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 104828.65 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 26996.85 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26996.85 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 117808.01 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 117808.01 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 111038.80 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 111038.80 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.00 | 13C2-PFDoA | 615.0 / 570.0 | 109019.42 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 109019.42 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 82701.52 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 82701.52 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 82701.52 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 82701.52 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17247.05 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17247.05 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22923.31 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22923.31 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(5) | **Injection Vial** | 50 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:32:29 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 39829.73 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 39829.73 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 84346.58 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 84346.58 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 92740.48 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 92740.48 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31765.07 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31765.07 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 119635.41 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 119635.41 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 123781.83 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 123781.83 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 34215.90 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 34215.90 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 137841.73 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 137841.73 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 133621.79 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 133621.79 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 131124.53 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 131124.53 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.24 | 13C2-PFTeDA | 715.0 / 670.0 | 101606.64 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 101606.64 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 101606.64 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 101606.64 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20455.24 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20455.24 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24519.40 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24519.40 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8288-FS(0) | **Injection Vial** | 51 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:43:21 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 22381.24 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 22381.24 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 70245.57 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 70245.57 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 90548.99 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 90548.99 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27481.36 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27481.36 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 90535.88 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 90535.88 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 91541.85 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 91541.85 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.00 | 13C8-PFOS | 507.0 / 99.0 | 25179.37 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 25179.37 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 111133.14 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 111133.14 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 116161.57 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 116161.57 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 3.99 | 13C2-PFDoA | 615.0 / 570.0 | 109614.04 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 109614.04 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 79148.72 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 79148.72 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 79148.72 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 79148.72 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18172.50 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18172.50 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21147.35 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21147.35 | 250.00 |

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Summary Internal Standard Report



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|---|---|---|---|
| **Sample Name** | J8288-FS-D(3) | **Injection Vial** | 52 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:54:13 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 39893.98 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 39893.98 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 85937.69 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 85937.69 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 108472.00 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 108472.00 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 30252.79 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 30252.79 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 106508.32 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 106508.32 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 102690.99 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 102690.99 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 13C8-PFOS | 507.0 / 99.0 | 31261.83 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 31261.83 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 117584.97 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 117584.97 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 118188.00 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 118188.00 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 115179.27 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 115179.27 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88566.01 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88566.01 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88566.01 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88566.01 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15822.88 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15822.88 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20546.74 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20546.74 | 250.00 |

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Summary Internal Standard Report



| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS(0) | **Injection Vial** | 53 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:05:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32391.97 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32391.97 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 66316.19 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 66316.19 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 62159.22 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 62159.22 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 13C3-PFHxS | 402.0 / 99.0 | 19084.71 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 19084.71 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 59331.79 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 59331.79 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 13C9-PFNA | 472.0 / 427.0 | 29208.47 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 13C9-PFNA | 472.0 / 427.0 | 29208.47 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.93 | 13C8-PFOS | 507.0 / 99.0 | 8299.79 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 8299.79 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.36 | 13C6-PFDA | 519.0 / 474.0 | 96823.81 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.26 | 13C6-PFDA | 519.0 / 474.0 | 96823.81 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 104289.23 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 104289.23 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.00 | 13C2-PFDoA | 615.0 / 570.0 | 106345.01 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 106345.01 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 73897.72 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 73897.72 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 73897.72 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 73897.72 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17299.17 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17299.17 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 18909.18 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 18909.18 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(3) | **Injection Vial** | 54 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:15:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 45638.62 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 45638.62 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 98732.92 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 98732.92 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 99528.75 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 99528.75 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27135.61 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27135.61 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 95363.57 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 95363.57 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.99 | 13C9-PFNA | 472.0 / 427.0 | 60583.15 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 13C9-PFNA | 472.0 / 427.0 | 60583.15 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 18290.54 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 18290.54 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.38 | 13C6-PFDA | 519.0 / 474.0 | 127663.15 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.25 | 13C6-PFDA | 519.0 / 474.0 | 127663.15 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 127761.38 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 127761.38 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 130619.15 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 130619.15 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 96416.65 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96416.65 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96416.65 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96416.65 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19000.68 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19000.68 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20524.42 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20524.42 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(5) | **Injection Vial** | 1 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:26:49 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 43584.63 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 43584.63 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 84057.08 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 84057.08 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 93725.64 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 93725.64 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31979.68 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31979.68 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 103124.07 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 103124.07 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.01 | 13C9-PFNA | 472.0 / 427.0 | 90679.47 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 13C9-PFNA | 472.0 / 427.0 | 90679.47 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.01 | 13C8-PFOS | 507.0 / 99.0 | 26260.91 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 26260.91 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.34 | 13C6-PFDA | 519.0 / 474.0 | 126724.54 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.28 | 13C6-PFDA | 519.0 / 474.0 | 126724.54 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 132815.87 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 132815.87 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 126265.66 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 126265.66 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96330.81 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96330.81 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96330.81 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96330.81 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20762.62 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20762.62 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 27268.94 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 27268.94 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(7) | **Injection Vial** | 2 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:37:41 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 39939.88 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 39939.88 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 86014.34 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 86014.34 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 93778.18 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 93778.18 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28658.59 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28658.59 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 110542.51 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 110542.51 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 13C9-PFNA | 472.0 / 427.0 | 102589.63 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.02 | 13C9-PFNA | 472.0 / 427.0 | 102589.63 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 13C8-PFOS | 507.0 / 99.0 | 25527.76 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 25527.76 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 120473.92 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 120473.92 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 118723.89 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 118723.89 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 121763.52 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 121763.52 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 90083.88 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90083.88 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90083.88 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90083.88 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19139.44 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19139.44 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21990.20 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21990.20 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(9) | **Injection Vial** | 3 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:48:34 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 34067.86 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 34067.86 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 92452.31 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 92452.31 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 96109.97 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 96109.97 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 32094.48 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 32094.48 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 120932.91 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 120932.91 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 116912.81 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 116912.81 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 36827.29 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 36827.29 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 130745.71 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 130745.71 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 136076.08 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 136076.08 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 130202.44 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 130202.44 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 102690.03 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 102690.03 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 102690.03 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 102690.03 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19596.46 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19596.46 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24279.83 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24279.83 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8320-FS(0)) | **Injection Vial** | 6 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:21:11 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 25759.63 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 25759.63 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 51583.73 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 51583.73 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 41819.96 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 41819.96 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.23 | 13C3-PFHxS | 402.0 / 99.0 | 15904.42 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 15904.42 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 48226.46 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 48226.46 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 30239.13 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 13C9-PFNA | 472.0 / 427.0 | 30239.13 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 8023.57 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.03 | 13C8-PFOS | 507.0 / 99.0 | 8023.57 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.32 | 13C6-PFDA | 519.0 / 474.0 | 93266.13 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.25 | 13C6-PFDA | 519.0 / 474.0 | 93266.13 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 96666.95 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 96666.95 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 93760.92 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 93760.92 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70101.78 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70101.78 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70101.78 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70101.78 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15680.39 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15680.39 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 15364.94 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 15364.94 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(3) | **Injection Vial** | 7 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:32:03 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38763.05 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38763.05 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 81491.96 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 81491.96 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 84743.31 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 84743.31 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27962.06 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27962.06 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 86710.43 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 86710.43 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 13C9-PFNA | 472.0 / 427.0 | 73791.09 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 13C9-PFNA | 472.0 / 427.0 | 73791.09 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 24763.81 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 24763.81 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.32 | 13C6-PFDA | 519.0 / 474.0 | 121468.50 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.26 | 13C6-PFDA | 519.0 / 474.0 | 121468.50 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 121755.75 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 121755.75 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 113005.82 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 113005.82 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86173.04 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86173.04 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86173.04 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 86173.04 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20926.80 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20926.80 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22091.19 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22091.19 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(5) | **Injection Vial** | 8 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:42:55 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37220.41 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37220.41 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 77744.61 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 77744.61 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 87319.16 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 87319.16 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28665.58 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 28665.58 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 101278.50 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 101278.50 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 100158.58 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 13C9-PFNA | 472.0 / 427.0 | 100158.58 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 29438.06 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 29438.06 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 118678.26 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 118678.26 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 118433.06 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 118433.06 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 112398.89 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 112398.89 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88813.21 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88813.21 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88813.21 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88813.21 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19462.30 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19462.30 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22639.61 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22639.61 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8337-FS(0) | **Injection Vial** | 11 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:15:33 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 27938.36 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 27938.36 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 63104.62 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 63104.62 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 45722.02 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 45722.02 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 13C3-PFHxS | 402.0 / 99.0 | 15378.00 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 15378.00 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 55164.49 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 55164.49 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 80129.68 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.94 | 13C9-PFNA | 472.0 / 427.0 | 80129.68 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.89 | 13C8-PFOS | 507.0 / 99.0 | 23846.09 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 23846.09 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 101094.02 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 101094.02 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 98845.18 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 98845.18 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 91008.96 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 91008.96 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 71091.19 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 71091.19 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 71091.19 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 71091.19 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 14356.10 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 14356.10 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 14860.58 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 14860.58 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(3) | **Injection Vial** | 12 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:26:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 42227.33 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 42227.33 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 89535.88 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 89535.88 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 85182.66 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 85182.66 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27910.62 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27910.62 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 97789.74 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 97789.74 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 13C9-PFNA | 472.0 / 427.0 | 109527.89 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 13C9-PFNA | 472.0 / 427.0 | 109527.89 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 36080.98 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 13C8-PFOS | 507.0 / 99.0 | 36080.98 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 117643.90 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 117643.90 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 121358.78 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 121358.78 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117731.14 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117731.14 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90870.14 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90870.14 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90870.14 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 90870.14 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17213.15 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17213.15 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23960.58 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23960.58 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(5) | **Injection Vial** | 13 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:37:18 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 40301.18 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 40301.18 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 79355.78 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 79355.78 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 86645.76 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 86645.76 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27904.87 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27904.87 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 97074.27 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 97074.27 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 13C9-PFNA | 472.0 / 427.0 | 110981.05 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.97 | 13C9-PFNA | 472.0 / 427.0 | 110981.05 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.93 | 13C8-PFOS | 507.0 / 99.0 | 36544.51 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 13C8-PFOS | 507.0 / 99.0 | 36544.51 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 112482.61 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 112482.61 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 112341.90 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 112341.90 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111666.74 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111666.74 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 84847.21 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84847.21 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84847.21 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84847.21 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16870.24 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16870.24 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21840.08 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21840.08 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(7) | **Injection Vial** | 14 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:48:10 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 33343.08 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 33343.08 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 78291.45 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 78291.45 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 81699.65 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 81699.65 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 28768.43 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 28768.43 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 109269.41 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 109269.41 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 106773.92 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 106773.92 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 35615.03 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.00 | 13C8-PFOS | 507.0 / 99.0 | 35615.03 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 113972.62 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 113972.62 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 117856.32 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 117856.32 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117665.22 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117665.22 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88766.34 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88766.34 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88766.34 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 88766.34 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17559.60 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17559.60 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21422.38 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21422.38 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:20:46 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 22608.00 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 22608.00 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 13C5-PFHxA | 318.0 / 273.0 | 48986.64 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 48986.64 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 41194.01 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 41194.01 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 13C3-PFHxS | 402.0 / 99.0 | 15271.70 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.26 | 13C3-PFHxS | 402.0 / 99.0 | 15271.70 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 59615.67 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 59615.67 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 48168.61 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 13C9-PFNA | 472.0 / 427.0 | 48168.61 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.95 | 13C8-PFOS | 507.0 / 99.0 | 15292.75 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 15292.75 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.33 | 13C6-PFDA | 519.0 / 474.0 | 97822.85 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 97822.85 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 110189.04 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 110189.04 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 104773.79 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 104773.79 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 71769.52 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 71769.52 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 71769.52 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 71769.52 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 14801.56 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 14801.56 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 16839.05 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 16839.05 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(3) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:31:38 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38849.47 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38849.47 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 85005.05 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 85005.05 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 86795.86 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 86795.86 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 29064.17 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 29064.17 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 100624.45 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 100624.45 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 97374.29 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 13C9-PFNA | 472.0 / 427.0 | 97374.29 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 34349.19 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 34349.19 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 124671.96 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.22 | 13C6-PFDA | 519.0 / 474.0 | 124671.96 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 121366.60 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 121366.60 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 118678.10 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 118678.10 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98354.72 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98354.72 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98354.72 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98354.72 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19321.68 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19321.68 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21542.74 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21542.74 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(5) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:42:30 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 41261.81 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 41261.81 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 84330.10 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 84330.10 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 89504.74 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 89504.74 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 29823.57 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 29823.57 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 108206.67 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 108206.67 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.97 | 13C9-PFNA | 472.0 / 427.0 | 118985.93 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 13C9-PFNA | 472.0 / 427.0 | 118985.93 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 13C8-PFOS | 507.0 / 99.0 | 32212.57 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 32212.57 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 129965.26 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 129965.26 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 122462.92 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 122462.92 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 118599.18 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 118599.18 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92414.24 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92414.24 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92414.24 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92414.24 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 22019.54 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 22019.54 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22424.80 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22424.80 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(7) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:53:23 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38557.75 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38557.75 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 78484.97 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 78484.97 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 84585.94 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 84585.94 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27843.89 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 27843.89 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 105596.44 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 105596.44 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 108465.78 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.95 | 13C9-PFNA | 472.0 / 427.0 | 108465.78 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 13C8-PFOS | 507.0 / 99.0 | 31636.78 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 31636.78 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 127578.71 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.32 | 13C6-PFDA | 519.0 / 474.0 | 127578.71 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 123589.25 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 123589.25 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117016.91 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117016.91 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89946.04 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89946.04 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89946.04 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89946.04 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19692.01 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19692.01 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21849.42 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21849.42 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(9) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:04:15 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38730.72 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38730.72 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 81025.61 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 81025.61 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 91416.66 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 91416.66 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28931.35 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 28931.35 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 120131.19 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 120131.19 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 113291.29 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 13C9-PFNA | 472.0 / 427.0 | 113291.29 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.99 | 13C8-PFOS | 507.0 / 99.0 | 35002.71 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 35002.71 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 133078.17 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 133078.17 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 138819.95 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 138819.95 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 120169.00 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 120169.00 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96967.15 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96967.15 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96967.15 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 96967.15 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20136.45 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20136.45 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23603.91 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23603.91 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8289-FS(0) | **Injection Vial** | 22 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:15:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 20017.51 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 20017.51 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 58122.45 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 58122.45 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 76496.94 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 76496.94 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 23335.50 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 23335.50 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 63633.23 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 63633.23 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.97 | 13C9-PFNA | 472.0 / 427.0 | 81126.61 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.91 | 13C9-PFNA | 472.0 / 427.0 | 81126.61 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 13C8-PFOS | 507.0 / 99.0 | 23485.32 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 23485.32 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 102481.60 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 102481.60 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 103548.52 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 103548.52 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 95847.84 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 95847.84 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 53982.05 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 53982.05 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 53982.05 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 53982.05 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19078.29 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19078.29 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19730.79 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19730.79 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(3) | **Injection Vial** | 23 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:26:01 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 43589.62 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 43589.62 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 90507.94 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 90507.94 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 95885.00 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 95885.00 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 29018.04 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 29018.04 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 111019.74 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 111019.74 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.00 | 13C9-PFNA | 472.0 / 427.0 | 114909.70 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 13C9-PFNA | 472.0 / 427.0 | 114909.70 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 13C8-PFOS | 507.0 / 99.0 | 35730.44 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 35730.44 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 121489.67 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 121489.67 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 120713.86 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 120713.86 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 118684.35 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 118684.35 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89907.95 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89907.95 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89907.95 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89907.95 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20681.75 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 20681.75 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21641.83 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21641.83 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:58:39 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 18333.81 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 18333.81 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | 13C5-PFHxA | 318.0 / 273.0 | 41984.48 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 41984.48 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 39130.30 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 39130.30 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.25 | 13C3-PFHxS | 402.0 / 99.0 | 16808.59 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | 13C3-PFHxS | 402.0 / 99.0 | 16808.59 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 58997.92 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 58997.92 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 13C9-PFNA | 472.0 / 427.0 | 85573.10 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.93 | 13C9-PFNA | 472.0 / 427.0 | 85573.10 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.91 | 13C8-PFOS | 507.0 / 99.0 | 24662.84 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 13C8-PFOS | 507.0 / 99.0 | 24662.84 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 104671.04 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 104671.04 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 100060.25 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 100060.25 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 94435.21 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 94435.21 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 67071.35 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 67071.35 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 67071.35 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 67071.35 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 13072.79 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 13072.79 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19405.45 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19405.45 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8330-FS-D(3) | **Injection Vial** | 27 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:09:29 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 43839.63 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 43839.63 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 87729.78 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 87729.78 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 92189.72 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 92189.72 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 29179.31 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 29179.31 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 104826.73 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 104826.73 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 13C9-PFNA | 472.0 / 427.0 | 112969.61 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.91 | 13C9-PFNA | 472.0 / 427.0 | 112969.61 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 39229.46 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.95 | 13C8-PFOS | 507.0 / 99.0 | 39229.46 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 124424.66 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.39 | 13C6-PFDA | 519.0 / 474.0 | 124424.66 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 125881.85 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 125881.85 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 120136.50 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 120136.50 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89648.11 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89648.11 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89648.11 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 89648.11 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16921.36 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 16921.36 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22258.63 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 22258.63 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:20:22 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 44503.28 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 44503.28 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 90202.60 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 90202.60 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 106176.36 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 106176.36 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 33814.58 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 33814.58 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 124532.22 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 124532.22 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 132326.70 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 132326.70 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 42346.59 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.95 | 13C8-PFOS | 507.0 / 99.0 | 42346.59 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 142086.33 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 142086.33 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 142387.59 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 142387.59 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 137273.31 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 137273.31 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.27 | 13C2-PFTeDA | 715.0 / 670.0 | 101609.97 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 101609.97 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 101609.97 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 101609.97 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 22423.02 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 22423.02 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 28224.35 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 28224.35 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(7) | **Injection Vial** | 29 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:31:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 30313.97 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 30313.97 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 67916.87 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 67916.87 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 72736.61 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 72736.61 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 24728.55 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 24728.55 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 98507.57 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 98507.57 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 98329.93 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 98329.93 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 31391.37 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.96 | 13C8-PFOS | 507.0 / 99.0 | 31391.37 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 108122.71 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.39 | 13C6-PFDA | 519.0 / 474.0 | 108122.71 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 111342.45 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 111342.45 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 105925.81 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 105925.81 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 75714.14 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 75714.14 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 75714.14 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 75714.14 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15589.90 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 15589.90 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19258.15 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19258.15 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS(0) | **Injection Vial** | 30 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:42:06 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 17755.34 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 17755.34 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | 13C5-PFHxA | 318.0 / 273.0 | 43276.56 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.83 | 13C5-PFHxA | 318.0 / 273.0 | 43276.56 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 42045.07 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 42045.07 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 13C3-PFHxS | 402.0 / 99.0 | 16155.19 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | 13C3-PFHxS | 402.0 / 99.0 | 16155.19 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 60384.71 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 60384.71 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.95 | 13C9-PFNA | 472.0 / 427.0 | 89237.37 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 13C9-PFNA | 472.0 / 427.0 | 89237.37 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.91 | 13C8-PFOS | 507.0 / 99.0 | 26446.88 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.93 | 13C8-PFOS | 507.0 / 99.0 | 26446.88 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 92150.55 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 92150.55 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 90558.22 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 90558.22 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 85873.66 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 85873.66 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70007.94 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70007.94 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70007.94 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 70007.94 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 11697.25 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 11697.25 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 16967.60 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 16967.60 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(5) | **Injection Vial** | 32 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:03:51 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 35438.31 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 35438.31 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 73676.24 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 73676.24 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 81283.40 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 81283.40 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 26108.65 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 26108.65 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 99708.26 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 99708.26 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 101333.11 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 101333.11 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 31061.66 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.93 | 13C8-PFOS | 507.0 / 99.0 | 31061.66 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 116995.55 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 116995.55 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 117653.35 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 117653.35 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111729.12 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 111729.12 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 81313.54 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 81313.54 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 81313.54 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 81313.54 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17367.96 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17367.96 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19209.05 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19209.05 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(7) | **Injection Vial** | 33 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:14:43 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32000.13 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32000.13 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 72156.26 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 72156.26 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 76317.20 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 76317.20 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 23994.83 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 23994.83 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 100698.36 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 100698.36 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 104491.95 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | N/A | 13C9-PFNA | 472.0 / 427.0 | 104491.95 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.92 | 13C8-PFOS | 507.0 / 99.0 | 28254.01 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.93 | 13C8-PFOS | 507.0 / 99.0 | 28254.01 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 111105.77 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 111105.77 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 108131.38 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 108131.38 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 109474.42 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 109474.42 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 82839.15 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 82839.15 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 82839.15 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 82839.15 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18631.50 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18631.50 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19948.31 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19948.31 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:47:21 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 21999.92 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 21999.92 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 13C5-PFHxA | 318.0 / 273.0 | 49910.96 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 49910.96 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 44823.12 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 44823.12 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 13C3-PFHxS | 402.0 / 99.0 | 15663.68 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.26 | 13C3-PFHxS | 402.0 / 99.0 | 15663.68 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 55464.84 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 55464.84 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 50610.76 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 50610.76 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.95 | 13C8-PFOS | 507.0 / 99.0 | 17265.12 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 17265.12 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 98553.97 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 98553.97 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 94701.78 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 94701.78 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 106260.54 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 106260.54 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 82843.01 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 82843.01 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 82843.01 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 82843.01 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 17015.17 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 17015.17 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 17984.55 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 17984.55 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:58:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37796.01 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37796.01 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 78816.03 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 78816.03 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 79573.75 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 79573.75 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 24846.19 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 24846.19 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 90078.37 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 90078.37 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 95521.90 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 95521.90 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.96 | 13C8-PFOS | 507.0 / 99.0 | 29207.49 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 29207.49 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 113676.00 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 113676.00 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 116934.60 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 116934.60 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 109486.28 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 109486.28 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 86727.39 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 86727.39 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 86727.39 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 86727.39 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 18879.43 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 18879.43 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 21484.07 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 21484.07 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(5) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:09:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37270.31 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37270.31 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 80983.88 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 80983.88 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 86346.55 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 86346.55 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 28368.93 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 28368.93 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 109682.06 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 109682.06 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 112180.70 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 112180.70 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 34587.86 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 34587.86 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 119643.44 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 119643.44 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 121190.46 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 13C7-PFUnA | 570.0 / 525.0 | 121190.46 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 114648.80 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 114648.80 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 87159.69 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 87159.69 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 87159.69 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 87159.69 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 19291.97 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 19291.97 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 23897.85 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 23897.85 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(7) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:20:00 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32860.57 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32860.57 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 72046.66 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 72046.66 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 79391.07 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 79391.07 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 25719.37 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 25719.37 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 96270.15 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 96270.15 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 111989.03 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 111989.03 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 32942.49 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 32942.49 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 113948.88 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 113948.88 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 119593.34 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 13C7-PFUnA | 570.0 / 525.0 | 119593.34 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 111750.29 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 111750.29 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 81273.92 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 81273.92 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 81273.92 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 81273.92 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 20537.30 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 20537.30 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 17960.73 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.71 | d5-EtFOSAA | 589.0 / 419.0 | 17960.73 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 40 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:30:53 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 22737.10 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 22737.10 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.82 | 13C5-PFHxA | 318.0 / 273.0 | 50399.05 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 50399.05 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 47511.28 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 47511.28 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.24 | 13C3-PFHxS | 402.0 / 99.0 | 16445.80 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.25 | 13C3-PFHxS | 402.0 / 99.0 | 16445.80 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 62319.96 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 62319.96 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 57955.34 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 57955.34 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.94 | 13C8-PFOS | 507.0 / 99.0 | 17702.54 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 17702.54 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 100520.23 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 100520.23 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 98989.64 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 98989.64 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 113382.84 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 113382.84 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 80330.73 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 80330.73 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 80330.73 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 80330.73 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 20806.14 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 20806.14 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 18422.53 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 18422.53 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(5) | **Injection Vial** | 42 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:52:40 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 35609.12 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 35609.12 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 78243.07 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 78243.07 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 79361.02 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 79361.02 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 25084.75 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 25084.75 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 99279.23 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 99279.23 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 98801.63 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 98801.63 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 33089.07 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 33089.07 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 115348.37 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 115348.37 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.72 | 13C7-PFUnA | 570.0 / 525.0 | 112534.23 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 13C7-PFUnA | 570.0 / 525.0 | 112534.23 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 108112.01 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.00 | 13C2-PFDoA | 615.0 / 570.0 | 108112.01 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 77989.89 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 77989.89 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 77989.89 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 77989.89 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 16905.46 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.55 | d3-MeFOSAA | 573.0 / 419.0 | 16905.46 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.71 | d5-EtFOSAA | 589.0 / 419.0 | 19394.27 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 19394.27 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(7) | **Injection Vial** | 43 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:03:32 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 33633.31 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 33633.31 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 13C5-PFHxA | 318.0 / 273.0 | 79601.55 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 79601.55 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 85974.70 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 85974.70 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27416.63 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27416.63 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 107041.43 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 107041.43 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 111023.36 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 13C9-PFNA | 472.0 / 427.0 | 111023.36 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 34255.89 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 34255.89 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 118938.60 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 118938.60 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.72 | 13C7-PFUnA | 570.0 / 525.0 | 119992.79 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.72 | 13C7-PFUnA | 570.0 / 525.0 | 119992.79 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 109563.40 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 109563.40 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 84886.47 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 84886.47 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 84886.47 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 84886.47 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 18961.15 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.55 | d3-MeFOSAA | 573.0 / 419.0 | 18961.15 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 22132.41 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 22132.41 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS(0) | **Injection Vial** | 46 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:36:09 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.57 | 13C3-PFBS | 302.0 / 99.0 | 8420.69 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 8420.69 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.90 | 13C5-PFHxA | 318.0 / 273.0 | 18560.72 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 18560.72 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 12813.13 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 12813.13 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.36 | 13C3-PFHxS | 402.0 / 99.0 | 16128.01 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 16128.01 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.61 | 13C8-PFOA | 421.0 / 376.0 | 21409.92 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 21409.92 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.96 | 13C9-PFNA | 472.0 / 427.0 | 15966.34 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.89 | 13C9-PFNA | 472.0 / 427.0 | 15966.34 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.77 | 13C8-PFOS | 507.0 / 99.0 | 4112.63 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 4112.63 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.31 | 13C6-PFDA | 519.0 / 474.0 | 91090.38 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 91090.38 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 94392.23 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 94392.23 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 89471.37 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 89471.37 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 65837.06 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 65837.06 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 65837.06 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 65837.06 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 14649.24 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 14649.24 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 16479.36 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 16479.36 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(7) | **Injection Vial** | 49 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:08:47 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 36179.54 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 36179.54 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 72443.87 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 72443.87 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 77915.52 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 77915.52 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27803.13 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27803.13 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 99834.76 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 99834.76 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 13C9-PFNA | 472.0 / 427.0 | 101487.18 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 2.92 | 13C9-PFNA | 472.0 / 427.0 | 101487.18 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 28228.10 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 28228.10 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 116283.51 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 116283.51 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 108861.55 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 108861.55 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117273.38 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 117273.38 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84066.16 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84066.16 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84066.16 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 84066.16 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19296.27 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19296.27 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21905.50 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21905.50 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:44:37 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.02 | 13C2-PFDA | 515.0 / 470.0 | 101055.81 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 31052.09 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 31052.09 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 96909.97 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 96909.97 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 96909.97 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 96909.97 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 101055.81 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 101055.81 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 101055.81 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 31052.09 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 31052.09 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 31052.09 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | CR884PB-FS(0) | **Injection Vial** | 24 |
| **Sample ID** | Procedural Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:50:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 94824.89 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 28906.71 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 28906.71 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 82362.58 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 82362.58 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 82362.58 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 82362.58 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 94824.89 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 94824.89 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 94824.89 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 28906.71 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 28906.71 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 28906.71 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | CR885LCS-FS(0) | **Injection Vial** | 25 |
| **Sample ID** | Laboratory Control Sample | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:00:52 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 102997.34 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 31092.96 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 31092.96 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 88471.27 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 88471.27 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 88471.27 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 88471.27 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 102997.34 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 102997.34 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 102997.34 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 31092.96 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 31092.96 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 31092.96 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8308-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-SO-FB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:11:44 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 100034.77 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 28865.30 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 28865.30 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 85481.97 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 85481.97 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 85481.97 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 85481.97 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 100034.77 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 100034.77 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 100034.77 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 28865.30 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 28865.30 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 28865.30 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8324-FS(0) | **Injection Vial** | 27 |
| **Sample ID** | VC-AQ-EB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:22:35 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 98355.85 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 32450.77 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 32450.77 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 89108.60 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 89108.60 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 89108.60 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 89108.60 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 98355.85 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 98355.85 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 98355.85 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 32450.77 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 32450.77 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 32450.77 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8323-FS(0) | **Injection Vial** | 28 |
| **Sample ID** | VC-AQ-FB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:33:27 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 110048.73 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 29041.60 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29041.60 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 97527.92 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 97527.92 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 97527.92 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 97527.92 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 110048.73 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 110048.73 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 110048.73 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29041.60 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 29041.60 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 29041.60 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS(0) | **Injection Vial** | 29 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:44:19 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 97391.00 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 10279.69 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 10279.69 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 90746.68 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 90746.68 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 90746.68 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 90746.68 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 97391.00 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 97391.00 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 97391.00 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 10279.69 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 10279.69 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 10279.69 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(3) | **Injection Vial** | 30 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:55:11 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 102441.53 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 21117.72 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 21117.72 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 85028.11 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 85028.11 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 85028.11 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 85028.11 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 102441.53 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 102441.53 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 102441.53 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 21117.72 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 21117.72 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 21117.72 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(5) | **Injection Vial** | 31 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:06:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 94815.88 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 21024.11 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 21024.11 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 88626.96 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 88626.96 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 88626.96 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 88626.96 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 94815.88 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 94815.88 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 94815.88 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 21024.11 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 21024.11 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 21024.11 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(7) | **Injection Vial** | 32 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:16:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 101215.22 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 29490.24 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29490.24 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 82046.97 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 82046.97 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 82046.97 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 82046.97 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 101215.22 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 101215.22 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 101215.22 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 29490.24 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 29490.24 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 29490.24 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(9) | **Injection Vial** | 33 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:27:48 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 95169.71 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 23705.96 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 23705.96 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 82799.58 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 82799.58 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 82799.58 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 82799.58 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 95169.71 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 95169.71 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 95169.71 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23705.96 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 23705.96 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 23705.96 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8309-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-SO-EB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:00:23 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 102278.71 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 27356.63 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 27356.63 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 88111.25 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 88111.25 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 88111.25 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 88111.25 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 102278.71 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 102278.71 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 102278.71 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 27356.63 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 27356.63 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 27356.63 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8319-FS(0) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:11:14 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 97152.33 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 8849.52 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 8849.52 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 96257.84 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 96257.84 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 96257.84 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 96257.84 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 97152.33 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 97152.33 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 97152.33 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 8849.52 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 8849.52 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 8849.52 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(3) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:22:07 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 97360.77 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 15805.94 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 15805.94 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 76811.36 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 76811.36 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 76811.36 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 76811.36 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 97360.77 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.73 | 13C2-PFDA | 515.0 / 470.0 | 97360.77 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 97360.77 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 15805.94 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 15805.94 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 15805.94 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(5) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:32:59 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 94476.19 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 21837.92 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 21837.92 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 80202.22 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 80202.22 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 80202.22 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 80202.22 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 94476.19 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 94476.19 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 94476.19 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 21837.92 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 21837.92 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 21837.92 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8219-FS-D(9) | **Injection Vial** | 41 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:54:43 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 105246.10 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 29555.68 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 29555.68 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 92723.35 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 92723.35 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 92723.35 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 92723.35 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.41 | 13C2-PFDA | 515.0 / 470.0 | 105246.10 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 105246.10 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 105246.10 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 29555.68 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 29555.68 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 29555.68 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8287-FS(0) | **Injection Vial** | 42 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:05:34 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 107926.68 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 12122.77 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 12122.77 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 98591.70 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 98591.70 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 98591.70 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 98591.70 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 107926.68 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 107926.68 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 107926.68 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 12122.77 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 12122.77 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 12122.77 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(3) | **Injection Vial** | 43 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:16:26 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 99321.70 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 17401.88 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 17401.88 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 84848.79 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 84848.79 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 84848.79 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 84848.79 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 99321.70 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 99321.70 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 99321.70 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 17401.88 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 17401.88 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 17401.88 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(7) | **Injection Vial** | 45 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:38:08 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 94139.70 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 23933.46 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 23933.46 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 81254.71 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 81254.71 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 81254.71 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 81254.71 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 94139.70 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 94139.70 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 94139.70 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 23933.46 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 23933.46 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 23933.46 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS(0) | **Injection Vial** | 48 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:10:45 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 100436.00 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 22085.12 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 22085.12 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 87699.50 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 87699.50 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 87699.50 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 87699.50 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 100436.00 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 100436.00 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 100436.00 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 22085.12 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 22085.12 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 22085.12 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(3) | **Injection Vial** | 49 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:21:37 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 95729.61 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 23301.77 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 23301.77 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 85133.25 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 85133.25 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 85133.25 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 85133.25 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 95729.61 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 95729.61 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 95729.61 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23301.77 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 23301.77 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 23301.77 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8290-FS-D(5) | **Injection Vial** | 50 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:32:29 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 108619.18 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 30608.41 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 30608.41 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 96782.17 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 96782.17 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 96782.17 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 96782.17 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 108619.18 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 108619.18 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 108619.18 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 30608.41 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 30608.41 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 30608.41 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8288-FS(0) | **Injection Vial** | 51 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:43:21 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 99553.73 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 20169.19 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 20169.19 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 76408.51 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 76408.51 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 76408.51 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 76408.51 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 99553.73 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 99553.73 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 99553.73 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 20169.19 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 20169.19 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 20169.19 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8288-FS-D(3) | **Injection Vial** | 52 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:54:13 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 98554.96 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 29914.33 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29914.33 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 82598.87 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 82598.87 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 82598.87 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 82598.87 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 98554.96 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 98554.96 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 98554.96 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29914.33 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 29914.33 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 29914.33 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8286-FS(0) | **Injection Vial** | 53 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:05:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 93408.56 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 7326.30 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 7326.30 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 80099.19 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 80099.19 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 80099.19 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 80099.19 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 93408.56 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 93408.56 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 93408.56 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 7326.30 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 7326.30 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 7326.30 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(3) | **Injection Vial** | 54 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:15:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 100862.29 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 14942.41 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 14942.41 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 83205.75 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 83205.75 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 83205.75 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 83205.75 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 100862.29 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 100862.29 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 100862.29 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 14942.41 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 14942.41 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 14942.41 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(5) | **Injection Vial** | 1 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:26:49 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 106279.89 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.57 | 13C4-PFOS | 503.0 / 99.0 | 23108.44 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 23108.44 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 85772.12 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 85772.12 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 85772.12 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 85772.12 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 106279.89 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 106279.89 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 106279.89 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23108.44 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 23108.44 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 23108.44 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(7) | **Injection Vial** | 2 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:37:41 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 97528.40 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 23597.06 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 23597.06 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 89347.75 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.25 | 13C2-PFOA | 415.0 / 370.0 | 89347.75 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 89347.75 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 89347.75 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 97528.40 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 97528.40 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 97528.40 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23597.06 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 23597.06 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 23597.06 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(9) | **Injection Vial** | 3 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:48:34 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 112614.54 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 33630.87 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 33630.87 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 97207.97 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 97207.97 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 97207.97 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 97207.97 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 112614.54 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 112614.54 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 112614.54 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 33630.87 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 33630.87 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 33630.87 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8320-FS(0) | **Injection Vial** | 6 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:21:11 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 92682.62 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 7809.20 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 7809.20 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 91492.05 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 91492.05 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 91492.05 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 91492.05 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 92682.62 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 92682.62 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 92682.62 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 7809.20 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 7809.20 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 7809.20 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(3) | **Injection Vial** | 7 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:32:03 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 93448.78 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 20433.02 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 20433.02 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 80982.48 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 80982.48 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 80982.48 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 80982.48 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 93448.78 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 93448.78 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 93448.78 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 20433.02 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 20433.02 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 20433.02 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(5) | **Injection Vial** | 8 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:42:55 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 94660.91 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 21816.42 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 21816.42 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 77164.03 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 77164.03 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 77164.03 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 77164.03 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 94660.91 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 94660.91 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 94660.91 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 21816.42 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 21816.42 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 21816.42 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8337-FS(0) | **Injection Vial** | 11 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:15:33 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 98362.01 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 19040.55 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 19040.55 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 94392.11 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 94392.11 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 94392.11 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 94392.11 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 98362.01 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 98362.01 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 98362.01 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 19040.55 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 19040.55 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 19040.55 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(3) | **Injection Vial** | 12 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:26:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 96759.05 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 28540.46 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 28540.46 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 81217.29 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 81217.29 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 81217.29 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 81217.29 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 96759.05 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 96759.05 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 96759.05 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 28540.46 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 28540.46 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 28540.46 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(5) | **Injection Vial** | 13 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:37:18 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 93981.69 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 28001.68 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 28001.68 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 80973.15 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 80973.15 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 80973.15 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.05 | 13C2-PFOA | 415.0 / 370.0 | 80973.15 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 93981.69 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 93981.69 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 93981.69 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 28001.68 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 28001.68 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 28001.68 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(7) | **Injection Vial** | 14 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:48:10 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 92129.16 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 28870.51 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 28870.51 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 81069.54 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 81069.54 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 81069.54 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 81069.54 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 92129.16 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 92129.16 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 92129.16 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 28870.51 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 28870.51 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 28870.51 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:20:46 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 97853.49 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 12444.16 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 12444.16 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 99156.19 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 99156.19 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.66 | 13C2-PFOA | 415.0 / 370.0 | 99156.19 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 99156.19 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 97853.49 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 97853.49 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 97853.49 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 12444.16 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 12444.16 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 12444.16 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(3) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:31:38 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 98279.60 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 20949.19 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 20949.19 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 80675.51 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 80675.51 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 80675.51 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 80675.51 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 98279.60 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 98279.60 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 98279.60 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 20949.19 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 20949.19 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 20949.19 | 239.25 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(5) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:42:30 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 106408.76 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 26469.21 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 26469.21 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 87699.31 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 87699.31 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 87699.31 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 87699.31 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 106408.76 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 106408.76 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 106408.76 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 26469.21 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 26469.21 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 26469.21 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(7) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:53:23 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 104585.34 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 25011.37 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 25011.37 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 87851.92 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 87851.92 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 87851.92 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 87851.92 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 104585.34 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 104585.34 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 104585.34 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 25011.37 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 25011.37 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 25011.37 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(9) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:04:15 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 110963.19 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 29414.65 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29414.65 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 92194.11 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 92194.11 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 92194.11 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 92194.11 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 110963.19 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 110963.19 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 110963.19 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29414.65 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 29414.65 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 29414.65 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8289-FS(0) | **Injection Vial** | 22 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:15:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 93882.29 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 22044.15 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 22044.15 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 121112.49 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 121112.49 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 121112.49 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 121112.49 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 93882.29 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 93882.29 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 93882.29 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 22044.15 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 22044.15 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 22044.15 | 239.25 |

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|---|---|---|---|
| **Sample Name** | J8289-FS-D(3) | **Injection Vial** | 23 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:26:01 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 107551.62 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 32638.04 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 32638.04 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 83996.35 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 83996.35 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 83996.35 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 83996.35 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 107551.62 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 107551.62 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 107551.62 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 32638.04 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 32638.04 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 32638.04 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8330-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:58:39 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 89829.72 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 18473.77 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 18473.77 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 110960.87 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 110960.87 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 110960.87 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 110960.87 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 89829.72 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 89829.72 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 89829.72 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 18473.77 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 18473.77 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 18473.77 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8330-FS-D(3) | **Injection Vial** | 27 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:09:29 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 104214.64 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 30200.89 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 30200.89 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 94022.82 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 94022.82 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 94022.82 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 94022.82 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 104214.64 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 104214.64 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 104214.64 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 30200.89 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 30200.89 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 30200.89 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8330-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:20:22 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 119102.83 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 33213.61 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 33213.61 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 102039.75 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 102039.75 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 102039.75 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 102039.75 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 119102.83 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 119102.83 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 119102.83 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 33213.61 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 33213.61 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 33213.61 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(7) | **Injection Vial** | 29 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:31:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 89015.99 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 27680.00 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 27680.00 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 78236.13 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 78236.13 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 78236.13 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 78236.13 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 89015.99 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 89015.99 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 89015.99 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 27680.00 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 27680.00 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 27680.00 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS(0) | **Injection Vial** | 30 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:42:06 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 86544.12 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 23217.19 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 23217.19 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.82 | 13C2-PFOA | 415.0 / 370.0 | 102783.99 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 102783.99 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 102783.99 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 102783.99 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 86544.12 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 86544.12 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 86544.12 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23217.19 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 23217.19 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 23217.19 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(5) | **Injection Vial** | 32 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:03:51 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 92860.24 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 29387.83 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29387.83 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 81163.58 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 81163.58 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 81163.58 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 81163.58 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 92860.24 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 92860.24 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 92860.24 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29387.83 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 29387.83 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 29387.83 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8331-FS-D(7) | **Injection Vial** | 33 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:14:43 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 88143.61 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 25950.05 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 25950.05 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 77878.35 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 77878.35 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 77878.35 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 77878.35 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 88143.61 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 88143.61 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 88143.61 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 25950.05 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 25950.05 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 25950.05 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:47:21 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 95810.02 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 15303.33 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 15303.33 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 102945.32 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 102945.32 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 102945.32 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 102945.32 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 95810.02 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 95810.02 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 95810.02 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 15303.33 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 15303.33 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 15303.33 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:58:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 102239.20 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 23320.11 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 23320.11 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 82160.93 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 82160.93 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 82160.93 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 82160.93 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 102239.20 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 102239.20 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 102239.20 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23320.11 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 23320.11 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 23320.11 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(5) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:09:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 107629.83 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 29337.00 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29337.00 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 89908.22 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 89908.22 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 89908.22 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 89908.22 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 107629.83 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 107629.83 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 107629.83 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29337.00 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 29337.00 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 29337.00 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(7) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:20:00 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 92724.06 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 26366.14 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 26366.14 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 80555.29 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 80555.29 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 80555.29 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 80555.29 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 92724.06 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 92724.06 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 92724.06 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 26366.14 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 26366.14 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 26366.14 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 40 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:30:53 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 100294.80 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 17820.92 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 17820.92 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 110189.39 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 110189.39 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 13C2-PFOA | 415.0 / 370.0 | 110189.39 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 110189.39 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 100294.80 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 100294.80 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 100294.80 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 17820.92 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 17820.92 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 17820.92 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(5) | **Injection Vial** | 42 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:52:40 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 3.99 | 13C2-PFDA | 515.0 / 470.0 | 93029.95 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 23994.29 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 23994.29 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 78804.71 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 78804.71 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 78804.71 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 78804.71 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 93029.95 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 93029.95 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 93029.95 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23994.29 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 23994.29 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 23994.29 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(7) | **Injection Vial** | 43 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:03:32 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 102065.04 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 30539.59 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 30539.59 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 85294.27 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 85294.27 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 13C2-PFOA | 415.0 / 370.0 | 85294.27 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.03 | 13C2-PFOA | 415.0 / 370.0 | 85294.27 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 102065.04 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 102065.04 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 102065.04 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 30539.59 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.25 | 13C4-PFOS | 503.0 / 99.0 | 30539.59 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 30539.59 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS(0) | **Injection Vial** | 46 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:36:09 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 80116.02 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 3085.15 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 3085.15 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 279591.95 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 279591.95 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 279591.95 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.03 | 13C2-PFOA | 415.0 / 370.0 | 279591.95 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 80116.02 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 80116.02 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 80116.02 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 3085.15 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.25 | 13C4-PFOS | 503.0 / 99.0 | 3085.15 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.03 | 13C4-PFOS | 503.0 / 99.0 | 3085.15 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8322-FS-D(7) | **Injection Vial** | 49 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:08:47 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 93774.88 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 22904.21 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 22904.21 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 82210.41 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 82210.41 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 82210.41 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 82210.41 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 93774.88 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 93774.88 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.46 | 13C2-PFDA | 515.0 / 470.0 | 93774.88 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 22904.21 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 22904.21 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 22904.21 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:56:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.56 | 13C3-PFBS | 302.0 / 99.0 | 25685.07 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.54 | 13C3-PFBS | 302.0 / 99.0 | 25685.07 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 59314.56 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 59314.56 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 67798.15 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 67798.15 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 22237.52 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.32 | 13C3-PFHxS | 402.0 / 99.0 | 22237.52 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.70 | 13C8-PFOA | 421.0 / 376.0 | 79306.14 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.70 | 13C8-PFOA | 421.0 / 376.0 | 79306.14 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.10 | 13C9-PFNA | 472.0 / 427.0 | 85625.55 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.10 | 13C9-PFNA | 472.0 / 427.0 | 85625.55 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | N/A | 13C8-PFOS | 507.0 / 99.0 | 27988.76 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | N/A | 13C8-PFOS | 507.0 / 99.0 | 27988.76 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.46 | 13C6-PFDA | 519.0 / 474.0 | 90551.24 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.48 | 13C6-PFDA | 519.0 / 474.0 | 90551.24 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 79330.22 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 79330.22 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.08 | 13C2-PFDoA | 615.0 / 570.0 | 83079.49 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.07 | 13C2-PFDoA | 615.0 / 570.0 | 83079.49 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.32 | 13C2-PFTeDA | 715.0 / 670.0 | 67708.22 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.33 | 13C2-PFTeDA | 715.0 / 670.0 | 67708.22 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.55 | 13C2-PFTeDA | 715.0 / 670.0 | 67708.22 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.55 | 13C2-PFTeDA | 715.0 / 670.0 | 67708.22 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 12168.37 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 12168.37 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 13720.39 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 13720.39 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | IB | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:20:17 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 21435.28 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | N/A | 13C3-PFBS | 302.0 / 99.0 | 21435.28 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 54756.12 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | N/A | 13C5-PFHxA | 318.0 / 273.0 | 54756.12 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 58132.13 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 58132.13 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | N/A | 13C3-PFHxS | 402.0 / 99.0 | 18658.73 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | N/A | 13C3-PFHxS | 402.0 / 99.0 | 18658.73 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | N/A | 13C8-PFOA | 421.0 / 376.0 | 77724.36 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | N/A | 13C8-PFOA | 421.0 / 376.0 | 77724.36 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.09 | 13C9-PFNA | 472.0 / 427.0 | 66603.33 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.26 | 13C9-PFNA | 472.0 / 427.0 | 66603.33 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | N/A | 13C8-PFOS | 507.0 / 99.0 | 22454.54 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | N/A | 13C8-PFOS | 507.0 / 99.0 | 22454.54 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.46 | 13C6-PFDA | 519.0 / 474.0 | 71002.40 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 71002.40 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 70732.42 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 70732.42 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 3.44 | 13C2-PFDoA | 615.0 / 570.0 | 70325.07 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 3.56 | 13C2-PFDoA | 615.0 / 570.0 | 70325.07 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.30 | 13C2-PFTeDA | 715.0 / 670.0 | 56695.46 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 56695.46 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.51 | 13C2-PFTeDA | 715.0 / 670.0 | 56695.46 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 56695.46 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.60 | d3-MeFOSAA | 573.0 / 419.0 | 10152.24 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 10152.24 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 13629.58 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 13629.58 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(11) | **Injection Vial** | 14 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:30:40 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 40927.61 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 40927.61 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 98324.90 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 98324.90 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 105817.35 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.28 | 13C4-PFHpA | 367.0 / 322.0 | 105817.35 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 39039.81 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 39039.81 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 135422.87 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 135422.87 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 133689.28 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 133689.28 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 13C8-PFOS | 507.0 / 99.0 | 44271.18 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 44271.18 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 141782.22 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 141782.22 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 136016.87 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 136016.87 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 138851.39 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 138851.39 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 112324.10 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 112324.10 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 112324.10 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 112324.10 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19447.53 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19447.53 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23123.66 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 23123.66 | 250.00 |

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|---|---|---|---|
| **Sample Name** | J8287-FS-D(9) | **Injection Vial** | 15 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:41:32 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 48452.46 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 48452.46 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 98599.70 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 98599.70 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 110805.33 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.26 | 13C4-PFHpA | 367.0 / 322.0 | 110805.33 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 40595.31 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 40595.31 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 147602.21 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 147602.21 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 140514.68 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.07 | 13C9-PFNA | 472.0 / 427.0 | 140514.68 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.04 | 13C8-PFOS | 507.0 / 99.0 | 47735.67 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 47735.67 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 149663.00 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 149663.00 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 152568.60 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 152568.60 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 141226.24 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 141226.24 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 111322.79 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 111322.79 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 111322.79 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 111322.79 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19456.68 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19456.68 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24824.58 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24824.58 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(11) | **Injection Vial** | 16 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:52:24 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37284.87 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37284.87 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 83865.18 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 83865.18 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 92713.63 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 92713.63 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31860.92 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 31860.92 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 119611.71 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 119611.71 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 124090.83 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 124090.83 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 35909.08 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.06 | 13C8-PFOS | 507.0 / 99.0 | 35909.08 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.42 | 13C6-PFDA | 519.0 / 474.0 | 127343.54 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.43 | 13C6-PFDA | 519.0 / 474.0 | 127343.54 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 123320.19 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 123320.19 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 122076.38 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 122076.38 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92807.20 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92807.20 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92807.20 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92807.20 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17465.49 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 17465.49 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21504.70 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21504.70 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8320-FS-D(11) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:03:15 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37718.88 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 37718.88 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 83772.14 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 83772.14 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 95983.75 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | N/A | 13C4-PFHpA | 367.0 / 322.0 | 95983.75 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 34175.63 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 34175.63 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.66 | 13C8-PFOA | 421.0 / 376.0 | 116232.88 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.64 | 13C8-PFOA | 421.0 / 376.0 | 116232.88 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 117180.14 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 117180.14 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 37707.64 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 37707.64 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 129317.05 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.38 | 13C6-PFDA | 519.0 / 474.0 | 129317.05 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.75 | 13C7-PFUnA | 570.0 / 525.0 | 122376.27 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 122376.27 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 121161.65 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 121161.65 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 93681.20 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 93681.20 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 93681.20 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 93681.20 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 13618.52 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 13618.52 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19626.76 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 19626.76 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(11) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:14:07 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 35150.05 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 35150.05 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 13C5-PFHxA | 318.0 / 273.0 | 85649.11 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 85649.11 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 87644.49 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 87644.49 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 32890.91 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 32890.91 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 121010.89 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.63 | 13C8-PFOA | 421.0 / 376.0 | 121010.89 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 115749.58 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 13C9-PFNA | 472.0 / 427.0 | 115749.58 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.98 | 13C8-PFOS | 507.0 / 99.0 | 39374.82 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 39374.82 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 122179.39 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 122179.39 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 123141.74 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 123141.74 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 123073.52 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 123073.52 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92455.84 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92455.84 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92455.84 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 92455.84 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19357.07 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 19357.07 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20479.73 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 20479.73 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:24:58 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32652.90 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 32652.90 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 72822.59 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.85 | 13C5-PFHxA | 318.0 / 273.0 | 72822.59 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 68408.54 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 68408.54 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.28 | 13C3-PFHxS | 402.0 / 99.0 | 23309.70 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 23309.70 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 78876.48 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.60 | 13C8-PFOA | 421.0 / 376.0 | 78876.48 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 79946.04 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 79946.04 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 26668.97 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 26668.97 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 99266.81 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 99266.81 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 91502.56 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 91502.56 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.02 | 13C2-PFDoA | 615.0 / 570.0 | 95291.68 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 95291.68 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 71791.18 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 71791.18 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 71791.18 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 71791.18 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 12818.36 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 12818.36 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 15504.59 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 15504.59 | 250.00 |

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(9) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:35:49 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 37518.07 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 37518.07 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 85481.44 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 85481.44 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 94754.27 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.23 | 13C4-PFHpA | 367.0 / 322.0 | 94754.27 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 33923.50 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 33923.50 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 128175.75 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.61 | 13C8-PFOA | 421.0 / 376.0 | 128175.75 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 119594.35 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 119594.35 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.96 | 13C8-PFOS | 507.0 / 99.0 | 38227.16 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 38227.16 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 127211.99 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 127211.99 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 131920.59 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 131920.59 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 126528.27 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 126528.27 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 98626.09 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.25 | 13C2-PFTeDA | 715.0 / 670.0 | 98626.09 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 98626.09 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.46 | 13C2-PFTeDA | 715.0 / 670.0 | 98626.09 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 16936.60 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 16936.60 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 22027.85 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 22027.85 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(3) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:46:43 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38913.08 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 38913.08 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 79367.83 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 79367.83 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 83166.55 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.21 | 13C4-PFHpA | 367.0 / 322.0 | 83166.55 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27092.13 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 27092.13 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 95068.49 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.60 | 13C8-PFOA | 421.0 / 376.0 | 95068.49 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 95964.45 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.06 | 13C9-PFNA | 472.0 / 427.0 | 95964.45 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 31385.66 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 31385.66 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 116136.68 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 116136.68 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 116741.46 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 116741.46 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 113109.57 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 113109.57 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 87261.64 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 87261.64 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.48 | 13C2-PFTeDA | 715.0 / 670.0 | 87261.64 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 87261.64 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 14153.39 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 14153.39 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 20164.31 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.72 | d5-EtFOSAA | 589.0 / 419.0 | 20164.31 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(9) | **Injection Vial** | 22 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:57:34 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 37393.44 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 37393.44 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 94036.01 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 94036.01 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 101105.97 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 101105.97 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 33782.51 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 33782.51 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 126468.42 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.60 | 13C8-PFOA | 421.0 / 376.0 | 126468.42 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 128303.82 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.05 | 13C9-PFNA | 472.0 / 427.0 | 128303.82 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 47677.30 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 47677.30 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 142212.51 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 142212.51 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 139347.27 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | 3.73 | 13C7-PFUnA | 570.0 / 525.0 | 139347.27 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 134167.87 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | 4.01 | 13C2-PFDoA | 615.0 / 570.0 | 134167.87 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 102611.68 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | 4.26 | 13C2-PFTeDA | 715.0 / 670.0 | 102611.68 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 102611.68 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | 4.47 | 13C2-PFTeDA | 715.0 / 670.0 | 102611.68 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | 3.56 | d3-MeFOSAA | 573.0 / 419.0 | 17979.99 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | 3.57 | d3-MeFOSAA | 573.0 / 419.0 | 17979.99 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | 3.73 | d5-EtFOSAA | 589.0 / 419.0 | 21514.96 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.46 | d5-EtFOSAA | 589.0 / 419.0 | 21514.96 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8322-FS-D(9) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:41:02 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 41383.78 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 41383.78 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.83 | 13C5-PFHxA | 318.0 / 273.0 | 104917.66 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 104917.66 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 106644.86 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.22 | 13C4-PFHpA | 367.0 / 322.0 | 106644.86 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 37940.87 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 37940.87 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 146821.45 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.61 | 13C8-PFOA | 421.0 / 376.0 | 146821.45 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 3.03 | 13C9-PFNA | 472.0 / 427.0 | 144789.27 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.04 | 13C9-PFNA | 472.0 / 427.0 | 144789.27 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 47786.90 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 47786.90 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.40 | 13C6-PFDA | 519.0 / 474.0 | 149396.60 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 149396.60 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 153773.85 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 153773.85 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 149395.47 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 149395.47 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 114443.95 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 114443.95 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 114443.95 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 114443.95 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 21817.40 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 21817.40 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24750.71 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 24750.71 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:02:44 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFBS_1 | 298.9 / 80.0 | 1.52 | 13C3-PFBS | 302.0 / 99.0 | 47087.28 | 232.25 |
| PFBS_2 | 298.9 / 99.0 | 1.53 | 13C3-PFBS | 302.0 / 99.0 | 47087.28 | 232.25 |
| PFHxA_1 | 313.0 / 269.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 113254.18 | 250.00 |
| PFHxA_2 | 313.0 / 119.0 | 1.84 | 13C5-PFHxA | 318.0 / 273.0 | 113254.18 | 250.00 |
| PFHpA_1 | 363.0 / 319.0 | 2.25 | 13C4-PFHpA | 367.0 / 322.0 | 130625.28 | 250.00 |
| PFHpA_2 | 363.0 / 169.0 | 2.24 | 13C4-PFHpA | 367.0 / 322.0 | 130625.28 | 250.00 |
| PFHxS_1 | 399.0 / 80.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 42064.27 | 236.50 |
| PFHxS_2 | 399.0 / 99.0 | 2.27 | 13C3-PFHxS | 402.0 / 99.0 | 42064.27 | 236.50 |
| PFOA_1 | 413.0 / 369.0 | 2.65 | 13C8-PFOA | 421.0 / 376.0 | 110213.58 | 250.00 |
| PFOA_2 | 413.0 / 169.0 | 2.63 | 13C8-PFOA | 421.0 / 376.0 | 110213.58 | 250.00 |
| PFNA_1 | 463.0 / 419.0 | 2.98 | 13C9-PFNA | 472.0 / 427.0 | 131262.18 | 250.00 |
| PFNA_2 | 463.0 / 219.0 | 3.03 | 13C9-PFNA | 472.0 / 427.0 | 131262.18 | 250.00 |
| PFOS_1 | 499.0 / 80.0 | 3.03 | 13C8-PFOS | 507.0 / 99.0 | 36236.16 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.05 | 13C8-PFOS | 507.0 / 99.0 | 36236.16 | 239.25 |
| PFDA_1 | 513.0 / 469.0 | 3.41 | 13C6-PFDA | 519.0 / 474.0 | 145370.31 | 250.00 |
| PFDA_2 | 513.0 / 219.0 | N/A | 13C6-PFDA | 519.0 / 474.0 | 145370.31 | 250.00 |
| PFUnA_1 | 563.0 / 519.0 | 3.74 | 13C7-PFUnA | 570.0 / 525.0 | 138431.32 | 250.00 |
| PFUnA_2 | 563.0 / 269.0 | N/A | 13C7-PFUnA | 570.0 / 525.0 | 138431.32 | 250.00 |
| PFDoA_1 | 613.0 / 569.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 144052.23 | 250.00 |
| PFDoA_2 | 613.0 / 319.0 | N/A | 13C2-PFDoA | 615.0 / 570.0 | 144052.23 | 250.00 |
| PFTrDA_1 | 663.0 / 619.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98620.96 | 250.00 |
| PFTrDA_2 | 663.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98620.96 | 250.00 |
| PFTeDA_1 | 713.0 / 669.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98620.96 | 250.00 |
| PFTeDA_2 | 713.0 / 169.0 | N/A | 13C2-PFTeDA | 715.0 / 670.0 | 98620.96 | 250.00 |
| NMeFOSAA_1 | 570.0 / 419.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18229.95 | 250.00 |
| NMeFOSAA_2 | 570.0 / 512.0 | N/A | d3-MeFOSAA | 573.0 / 419.0 | 18229.95 | 250.00 |
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21349.84 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 21349.84 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:56:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.07 | 13C2-PFDA | 515.0 / 470.0 | 85865.67 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.61 | 13C4-PFOS | 503.0 / 99.0 | 28550.52 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.77 | 13C4-PFOS | 503.0 / 99.0 | 28550.52 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.86 | 13C2-PFOA | 415.0 / 370.0 | 80851.75 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.27 | 13C2-PFOA | 415.0 / 370.0 | 80851.75 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.69 | 13C2-PFOA | 415.0 / 370.0 | 80851.75 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.09 | 13C2-PFOA | 415.0 / 370.0 | 80851.75 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.45 | 13C2-PFDA | 515.0 / 470.0 | 85865.67 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.77 | 13C2-PFDA | 515.0 / 470.0 | 85865.67 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.54 | 13C2-PFDA | 515.0 / 470.0 | 85865.67 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.54 | 13C4-PFOS | 503.0 / 99.0 | 28550.52 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.30 | 13C4-PFOS | 503.0 / 99.0 | 28550.52 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.08 | 13C4-PFOS | 503.0 / 99.0 | 28550.52 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | IB | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:20:17 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.03 | 13C2-PFDA | 515.0 / 470.0 | 76092.73 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.59 | 13C4-PFOS | 503.0 / 99.0 | 25916.97 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.75 | 13C4-PFOS | 503.0 / 99.0 | 25916.97 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.85 | 13C2-PFOA | 415.0 / 370.0 | 68251.14 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.26 | 13C2-PFOA | 415.0 / 370.0 | 68251.14 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.67 | 13C2-PFOA | 415.0 / 370.0 | 68251.14 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.07 | 13C2-PFOA | 415.0 / 370.0 | 68251.14 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.42 | 13C2-PFDA | 515.0 / 470.0 | 76092.73 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.74 | 13C2-PFDA | 515.0 / 470.0 | 76092.73 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.50 | 13C2-PFDA | 515.0 / 470.0 | 76092.73 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.52 | 13C4-PFOS | 503.0 / 99.0 | 25916.97 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.28 | 13C4-PFOS | 503.0 / 99.0 | 25916.97 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.06 | 13C4-PFOS | 503.0 / 99.0 | 25916.97 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8286-FS-D(11) | **Injection Vial** | 14 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:30:40 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 123371.06 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 33769.29 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 33769.29 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 112031.75 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 112031.75 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 112031.75 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 112031.75 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 123371.06 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 123371.06 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 123371.06 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 33769.29 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 33769.29 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 33769.29 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(9) | **Injection Vial** | 15 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:41:32 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 123270.34 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 34708.29 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 34708.29 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 112054.91 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 112054.91 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 112054.91 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 112054.91 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 123270.34 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 123270.34 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 123270.34 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 34708.29 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 34708.29 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 34708.29 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8319-FS-D(11) | **Injection Vial** | 16 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:52:24 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 107413.33 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 29828.63 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 29828.63 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 96364.28 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 96364.28 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 96364.28 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 96364.28 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 107413.33 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 107413.33 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 107413.33 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 29828.63 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 29828.63 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 29828.63 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(11) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:03:15 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 101863.96 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 31069.97 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 31069.97 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 97099.78 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 97099.78 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 97099.78 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 97099.78 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 101863.96 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 101863.96 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.48 | 13C2-PFDA | 515.0 / 470.0 | 101863.96 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 31069.97 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 31069.97 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 31069.97 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8321-FS-D(11) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:14:07 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 101758.40 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 32220.39 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 32220.39 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 94611.72 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 94611.72 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 94611.72 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 94611.72 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 101758.40 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 101758.40 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 101758.40 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 32220.39 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 32220.39 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 32220.39 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:24:58 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.01 | 13C2-PFDA | 515.0 / 470.0 | 79982.00 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 19761.58 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.72 | 13C4-PFOS | 503.0 / 99.0 | 19761.58 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.84 | 13C2-PFOA | 415.0 / 370.0 | 67369.55 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 67369.55 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 67369.55 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 67369.55 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.40 | 13C2-PFDA | 515.0 / 470.0 | 79982.00 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.72 | 13C2-PFDA | 515.0 / 470.0 | 79982.00 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 79982.00 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 19761.58 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.27 | 13C4-PFOS | 503.0 / 99.0 | 19761.58 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 19761.58 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(9) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:35:49 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 113616.06 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 33755.42 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 33755.42 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 98596.36 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 98596.36 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 98596.36 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 98596.36 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 113616.06 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 113616.06 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 113616.06 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 33755.42 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 33755.42 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 33755.42 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(3) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:46:43 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 90641.50 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 23813.92 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 23813.92 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 81116.35 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 81116.35 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 81116.35 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 81116.35 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 90641.50 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 90641.50 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 90641.50 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 23813.92 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 23813.92 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 23813.92 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(9) | **Injection Vial** | 22 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:57:34 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 119300.98 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 34133.60 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 34133.60 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 105141.55 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 105141.55 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 105141.55 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 105141.55 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 119300.98 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 119300.98 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 119300.98 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 34133.60 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 34133.60 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 34133.60 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8322-FS-D(9) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:41:02 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 119545.13 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.55 | 13C4-PFOS | 503.0 / 99.0 | 38121.62 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 38121.62 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 106595.43 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.23 | 13C2-PFOA | 415.0 / 370.0 | 106595.43 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.64 | 13C2-PFOA | 415.0 / 370.0 | 106595.43 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 106595.43 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 119545.13 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 119545.13 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 119545.13 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 38121.62 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 38121.62 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 38121.62 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8289-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:02:44 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C2-PFDoA | 615.0 / 570.0 | 4.00 | 13C2-PFDA | 515.0 / 470.0 | 124616.21 | 250.00 |
| d3-MeFOSAA | 573.0 / 419.0 | 3.56 | 13C4-PFOS | 503.0 / 99.0 | 32533.91 | 239.25 |
| d5-EtFOSAA | 589.0 / 419.0 | 3.71 | 13C4-PFOS | 503.0 / 99.0 | 32533.91 | 239.25 |
| 13C5-PFHxA | 318.0 / 273.0 | 1.83 | 13C2-PFOA | 415.0 / 370.0 | 114354.28 | 250.00 |
| 13C4-PFHpA | 367.0 / 322.0 | 2.24 | 13C2-PFOA | 415.0 / 370.0 | 114354.28 | 250.00 |
| 13C8-PFOA | 421.0 / 376.0 | 2.65 | 13C2-PFOA | 415.0 / 370.0 | 114354.28 | 250.00 |
| 13C9-PFNA | 472.0 / 427.0 | 3.04 | 13C2-PFOA | 415.0 / 370.0 | 114354.28 | 250.00 |
| 13C6-PFDA | 519.0 / 474.0 | 3.39 | 13C2-PFDA | 515.0 / 470.0 | 124616.21 | 250.00 |
| 13C7-PFUnA | 570.0 / 525.0 | 3.71 | 13C2-PFDA | 515.0 / 470.0 | 124616.21 | 250.00 |
| 13C2-PFTeDA | 715.0 / 670.0 | 4.47 | 13C2-PFDA | 515.0 / 470.0 | 124616.21 | 250.00 |
| 13C3-PFBS | 302.0 / 99.0 | 1.51 | 13C4-PFOS | 503.0 / 99.0 | 32533.91 | 239.25 |
| 13C3-PFHxS | 402.0 / 99.0 | 2.26 | 13C4-PFOS | 503.0 / 99.0 | 32533.91 | 239.25 |
| 13C8-PFOS | 507.0 / 99.0 | 3.04 | 13C4-PFOS | 503.0 / 99.0 | 32533.91 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 3.10 | 13C8-PFOS | 507.0 / 99.0 | 26769.68 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 3.11 | 13C8-PFOS | 507.0 / 99.0 | 26769.68 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(13) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:46:05 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 2.93 | 13C8-PFOS | 507.0 / 99.0 | 35583.66 | 239.25 |
| PFOS_2 | 499.0 / 99.0 | 2.97 | 13C8-PFOS | 507.0 / 99.0 | 35583.66 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.09 | 13C4-PFOS | 503.0 / 99.0 | 29371.12 | 239.25 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | J8337-FS-D(13) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:46:05 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| 13C8-PFOS | 507.0 / 99.0 | 3.05 | 13C4-PFOS | 503.0 / 99.0 | 33746.75 | 239.25 |

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Summary Internal Standard Report

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 17612.55 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 17612.55 | 250.00 |

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Summary Internal Standard Report

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|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:27:43 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 11404.63 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | N/A | d5-EtFOSAA | 589.0 / 419.0 | 11404.63 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:03:07 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| NEtFOSAA_1 | 584.0 / 419.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 12784.89 | 250.00 |
| NEtFOSAA_2 | 584.0 / 483.0 | 3.74 | d5-EtFOSAA | 589.0 / 419.0 | 12784.89 | 250.00 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.78 | 13C4-PFOS | 503.0 / 99.0 | 29371.12 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:27:43 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.80 | 13C4-PFOS | 503.0 / 99.0 | 28447.31 | 239.25 |

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Summary Internal Standard Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:03:07 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | IS | IS MRM Transition | IS Area | IS Conc. (ng/L) |
|---|---|---|---|---|---|---|
| d5-EtFOSAA | 589.0 / 419.0 | 3.73 | 13C4-PFOS | 503.0 / 99.0 | 14860.36 | 239.25 |

# Chromatograms

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:28:31 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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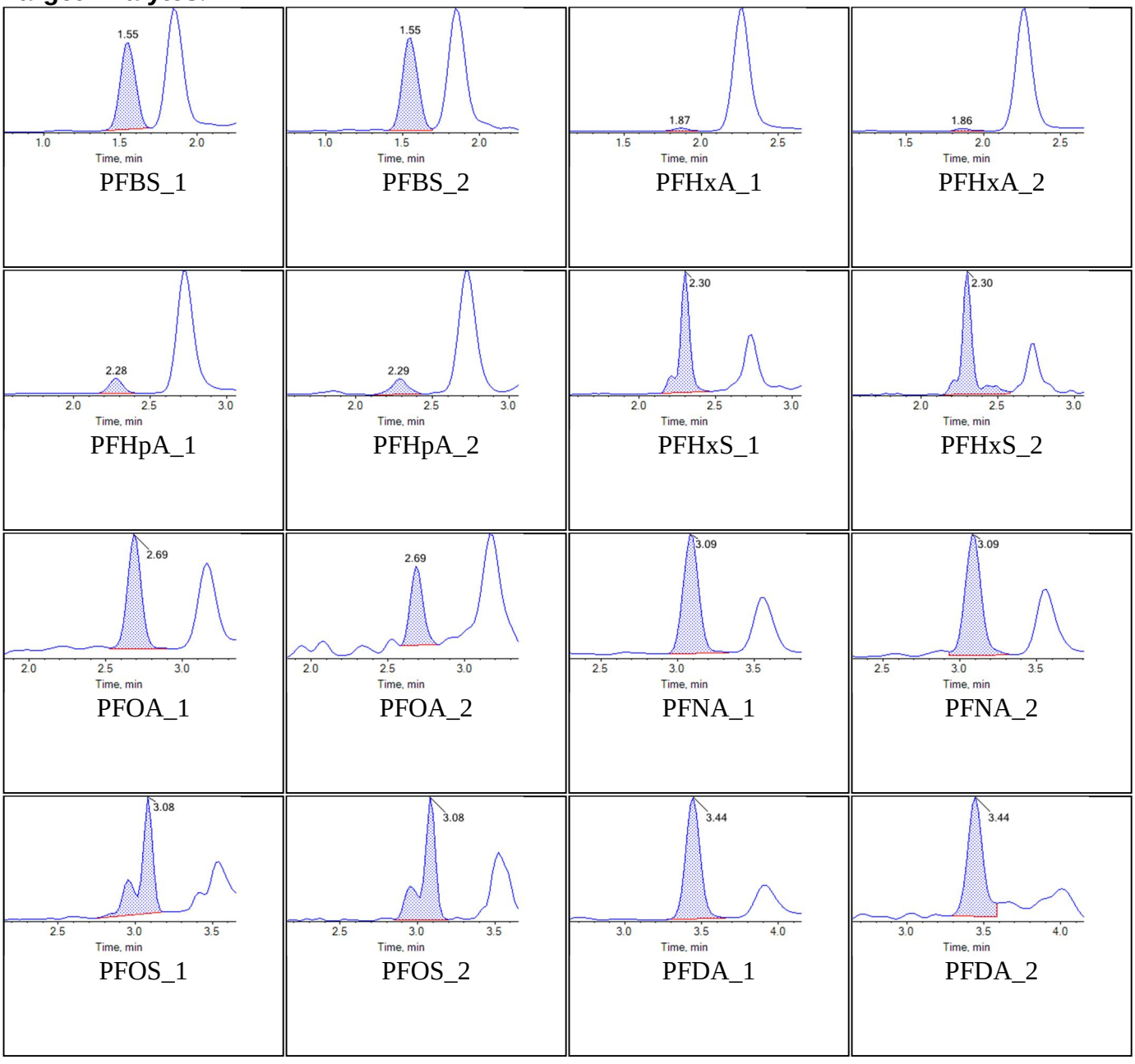
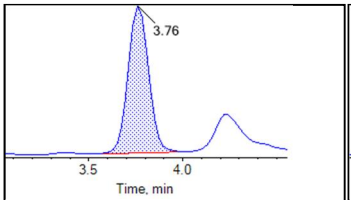


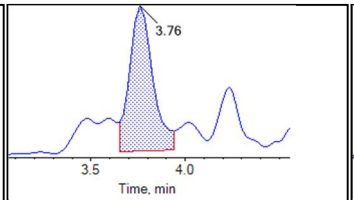
BATTELLE

Chromatogram Report

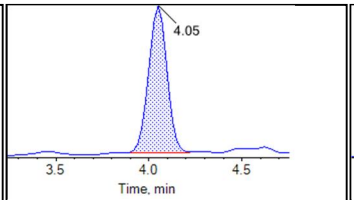
Created with Analyst Reporter
Printed: 22/10/2018 1:43:33 PM



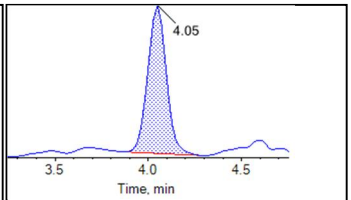
PFUnA_1



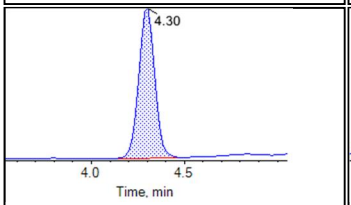
PFUnA_2



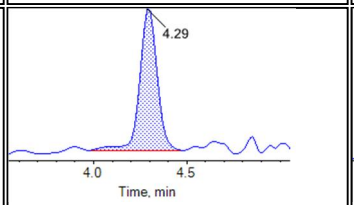
PFDoA_1



PFDoA_2



PFTrDA_1



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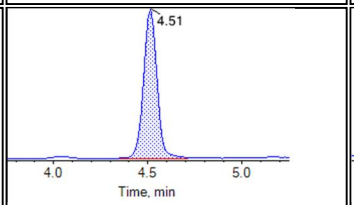

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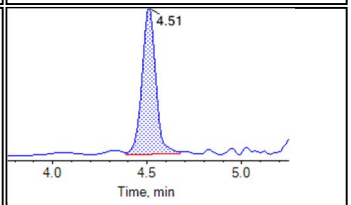

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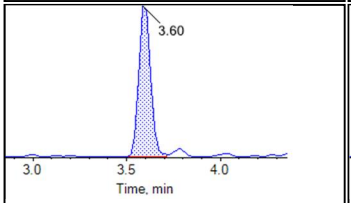

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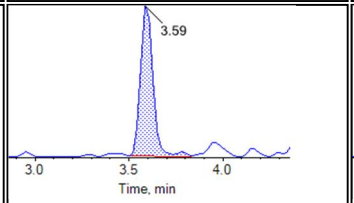
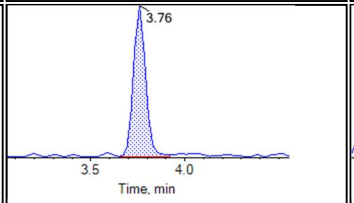


NMeFOSAA_2



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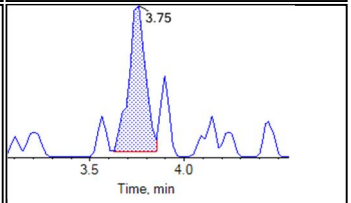
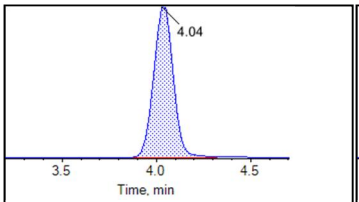
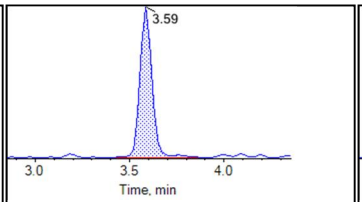


NEtFOSAA_2

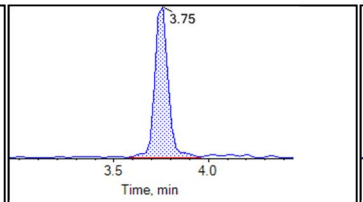
## Internal Standards:



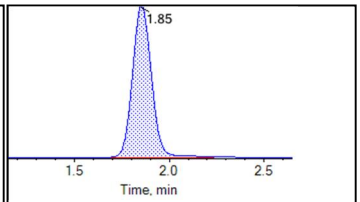
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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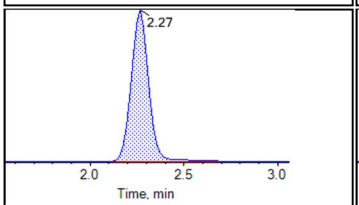
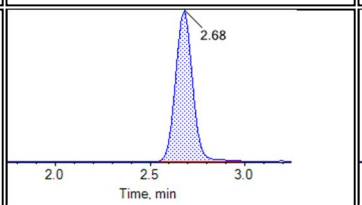
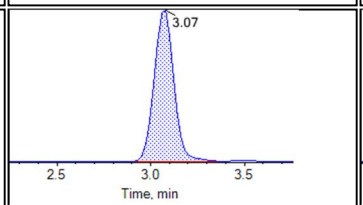


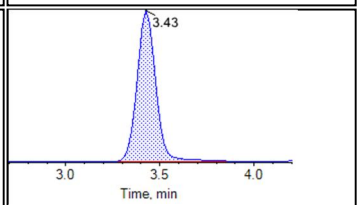
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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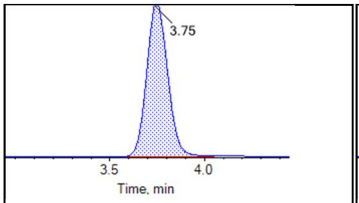


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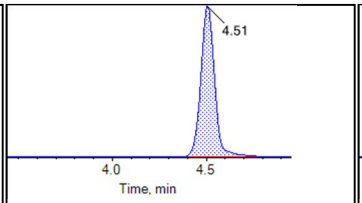
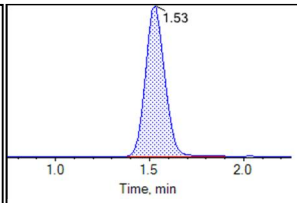
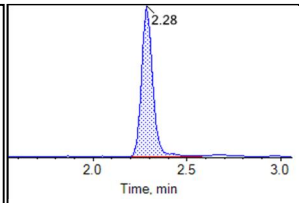



13C2-PFTeDA




13C3-PFBS

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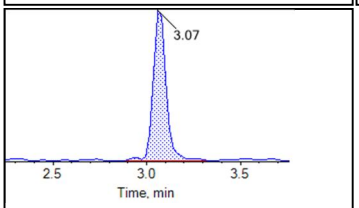


13C8-PFOS

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Chromatogram Report

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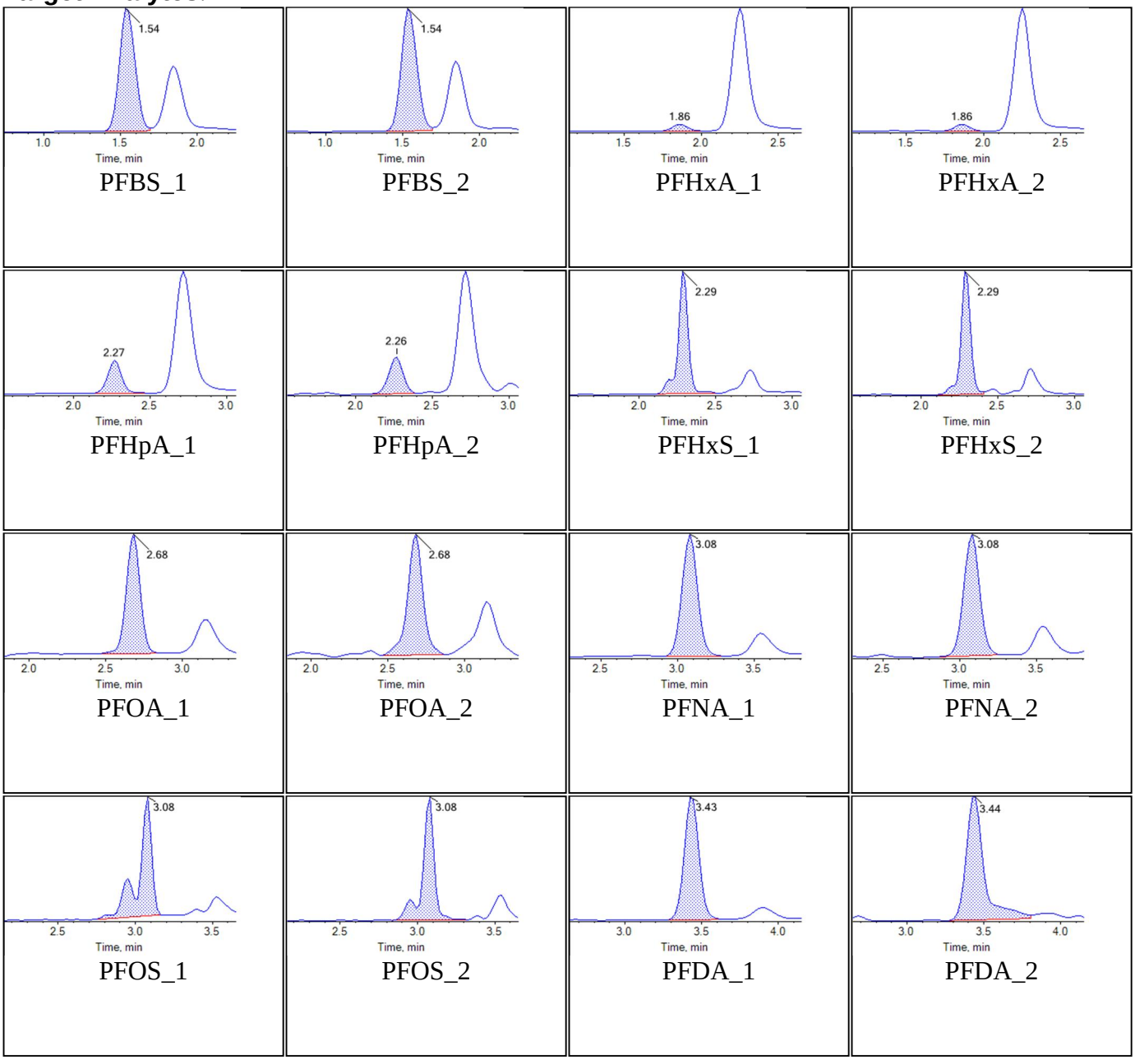
Printed: 22/10/2018 1:43:39 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:39:24 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



BATTELLE

Chromatogram Report

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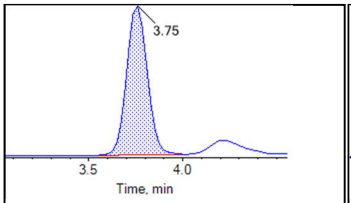

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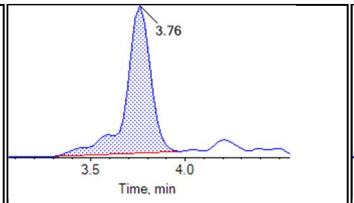

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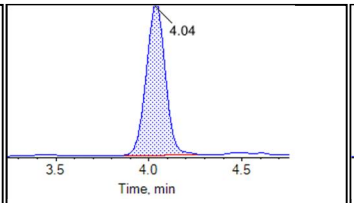

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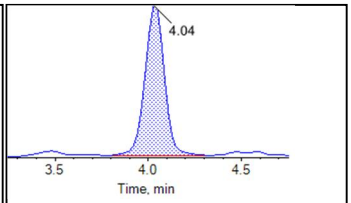
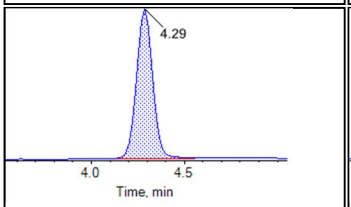
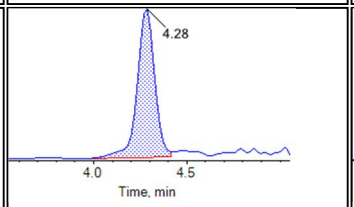


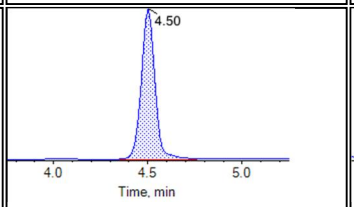
PFDoA_2



PFTrDA_1



PFTrDA_2



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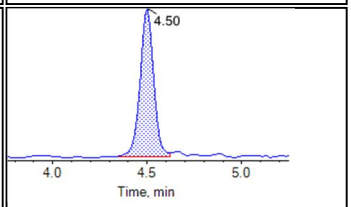

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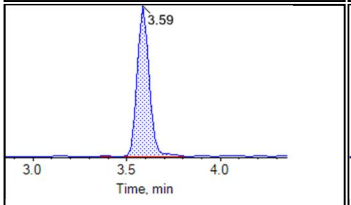

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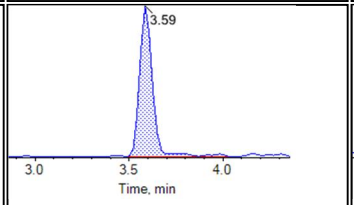

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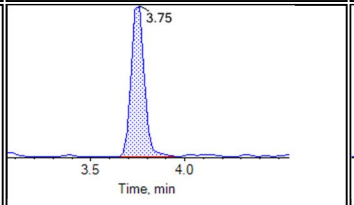
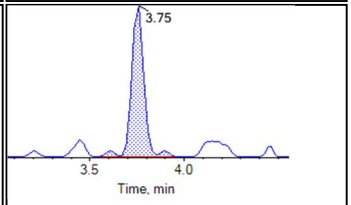
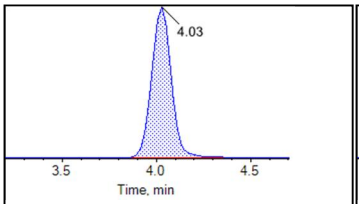


NEtFOSAA_1

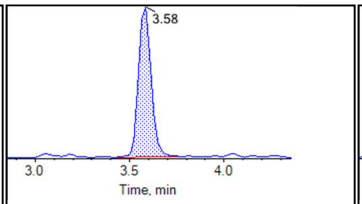


NEtFOSAA_2

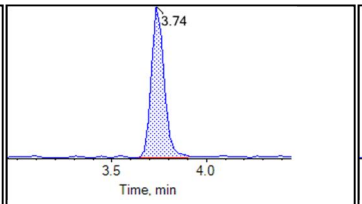
## Internal Standards:



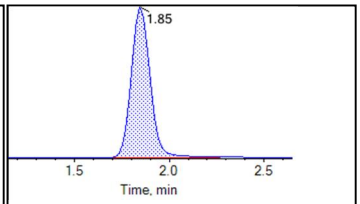
13C2-PFDoA



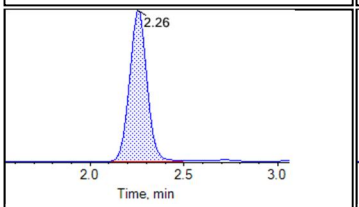
d3-MeFOSAA



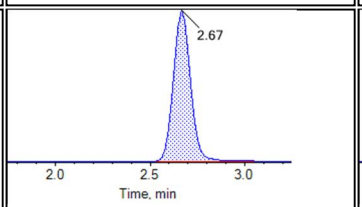
d5-EtFOSAA



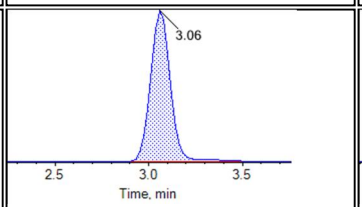
13C5-PFHxA



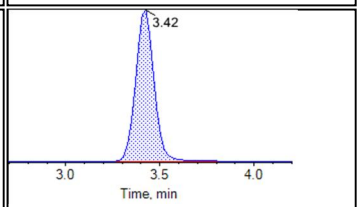
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

BATTELLE

Chromatogram Report

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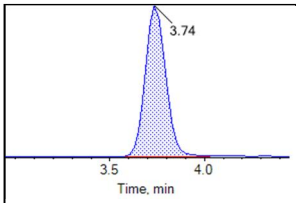
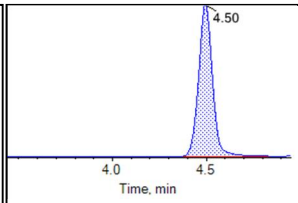
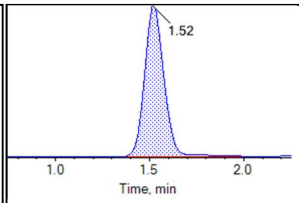


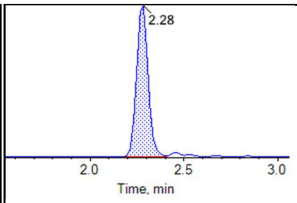

13C7-PFUnA



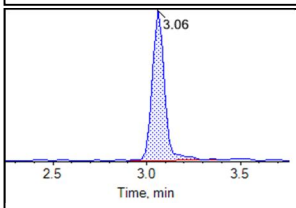

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:50:18 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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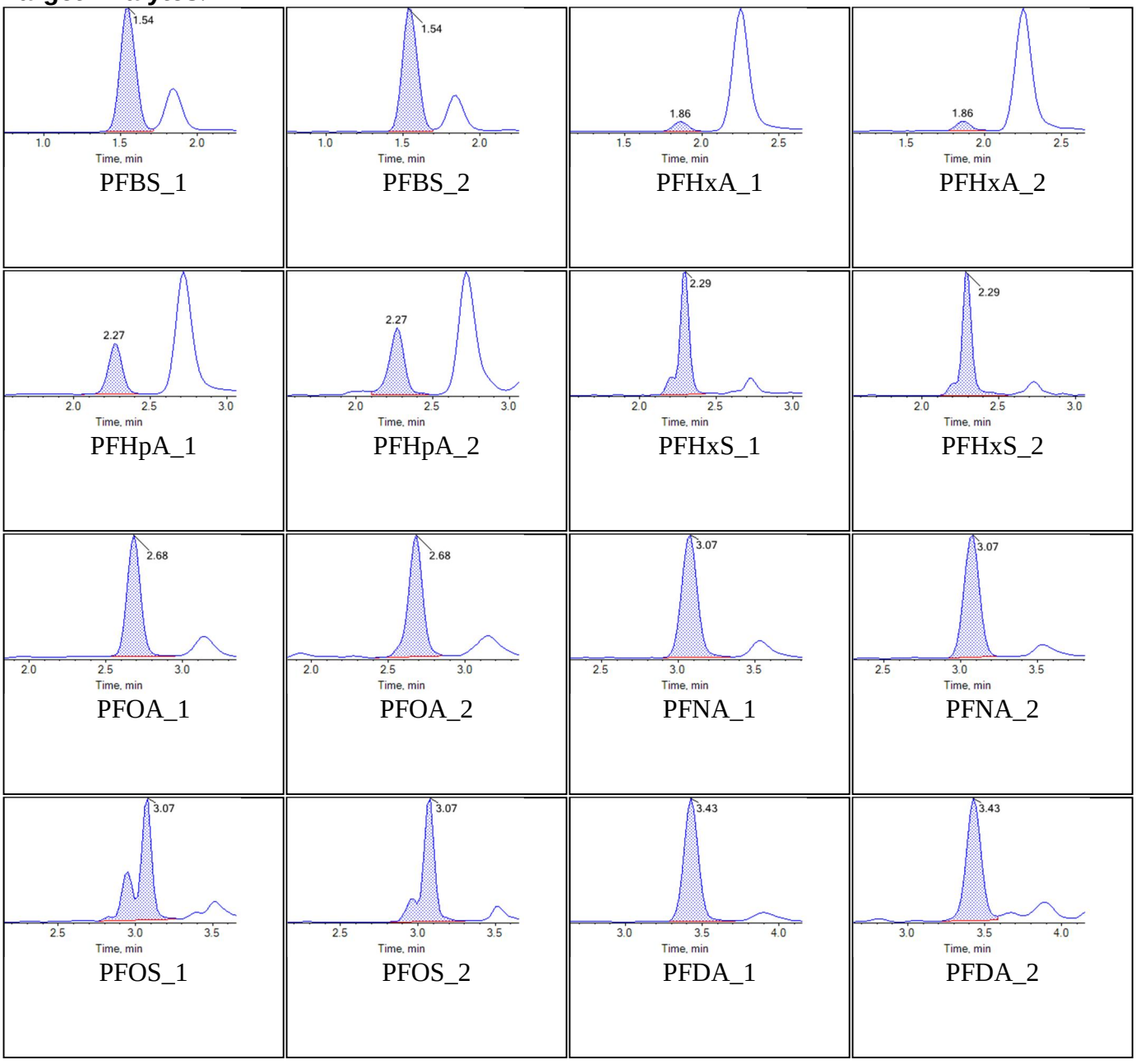

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Chromatogram Report

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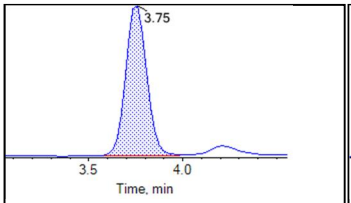

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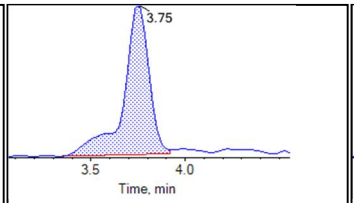

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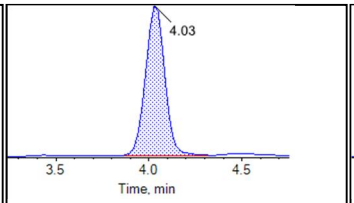
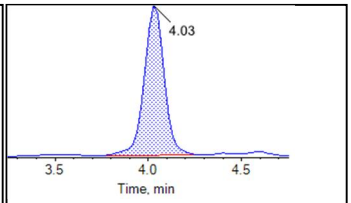


PFDoA_1



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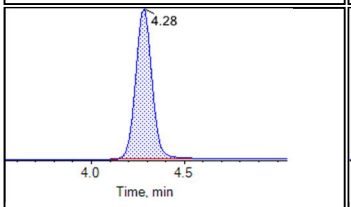
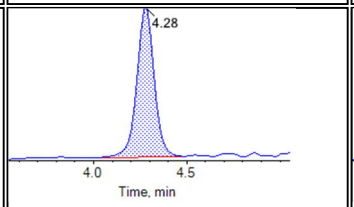


PFTrDA_1



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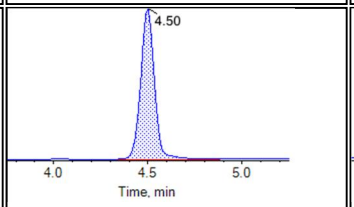

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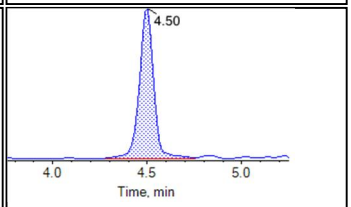

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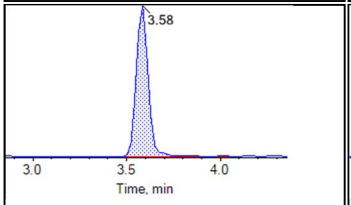

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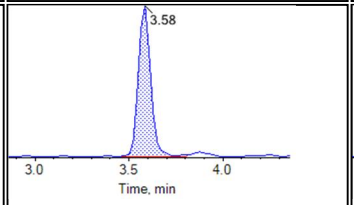

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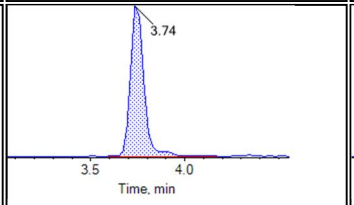

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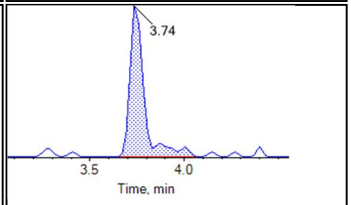

NEtFOSAA_2

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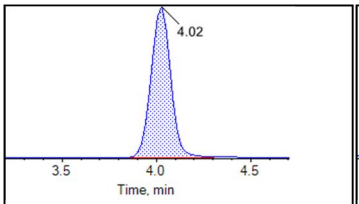

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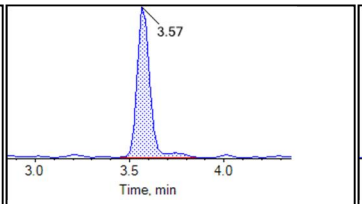
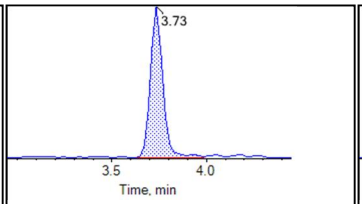
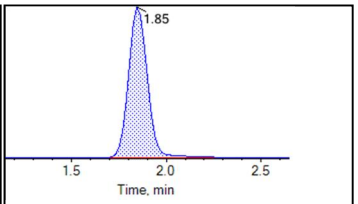


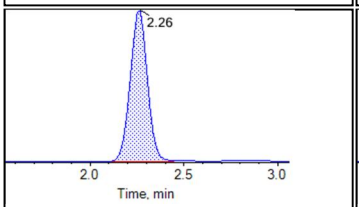
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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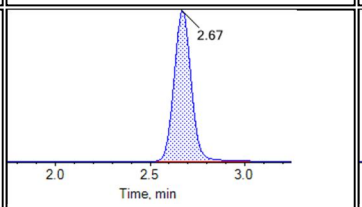

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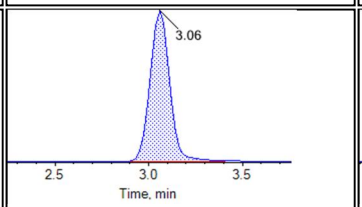
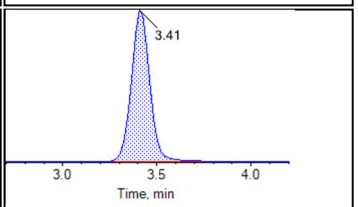


13C9-PFNA



13C6-PFDA

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Chromatogram Report

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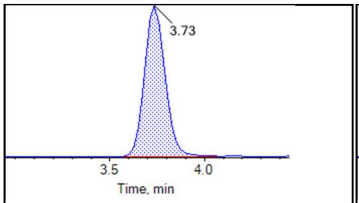
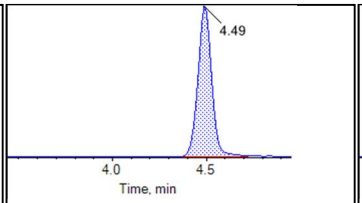
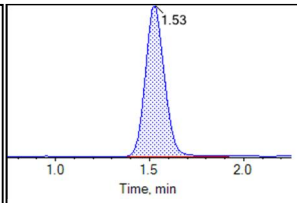


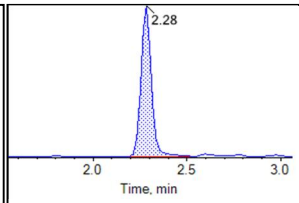

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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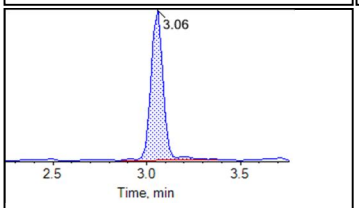


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:01:11 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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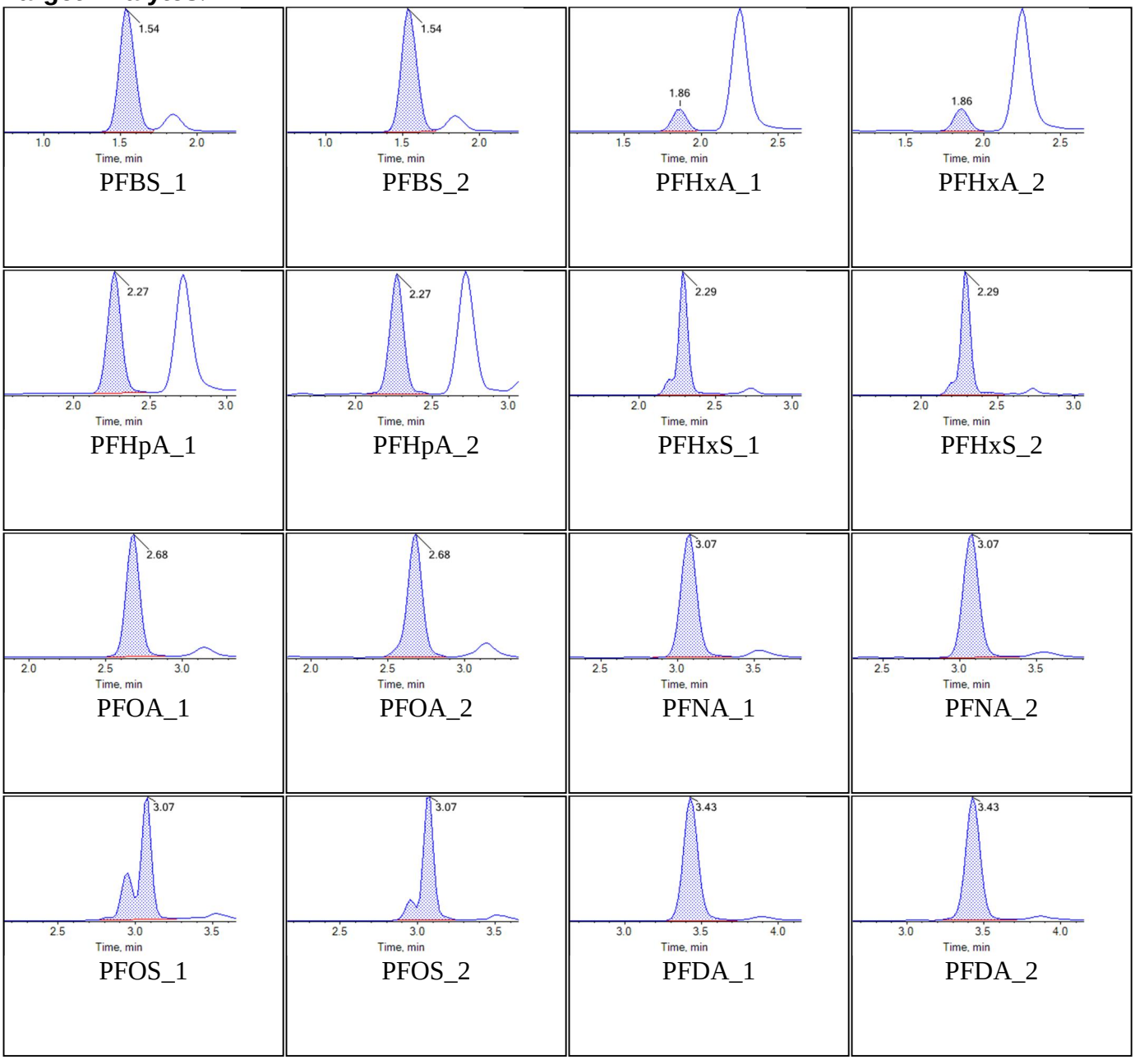

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Chromatogram Report

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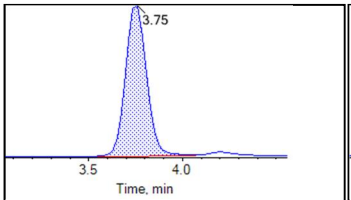
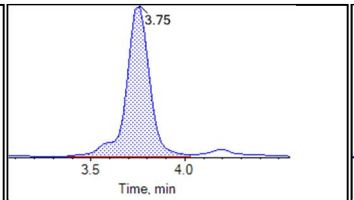
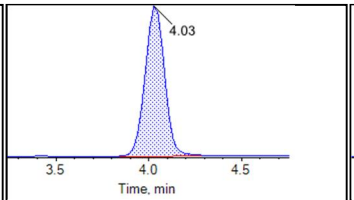


PFUnA_1



PFUnA_2



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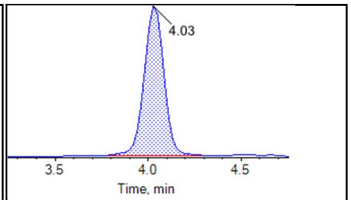
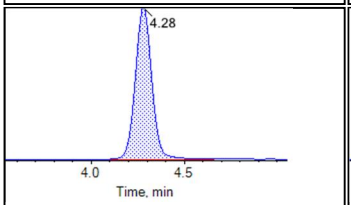
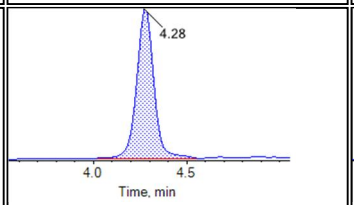


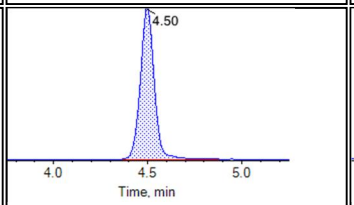
PFDoA_2



PFTrDA_1



PFTrDA_2



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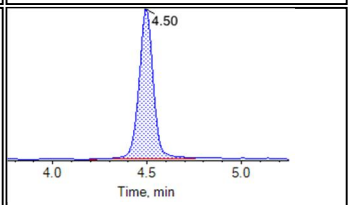

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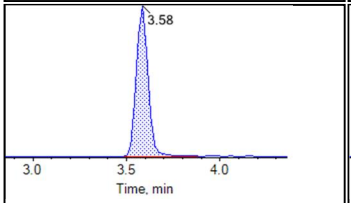
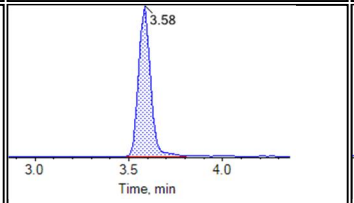


NMeFOSAA_1



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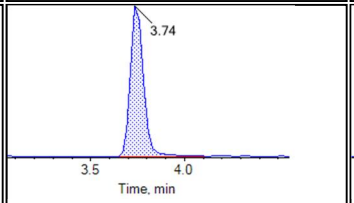

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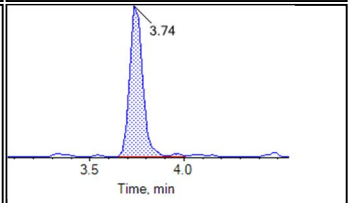

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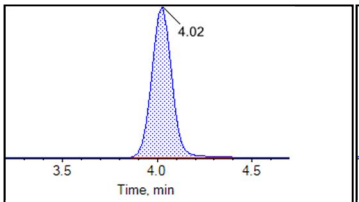

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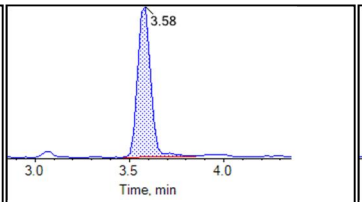
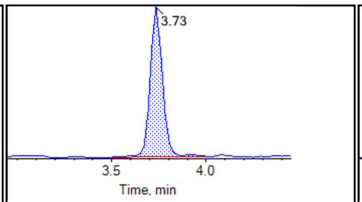
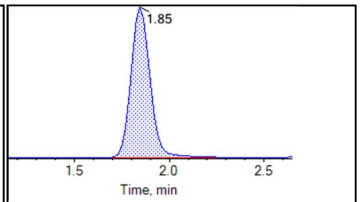


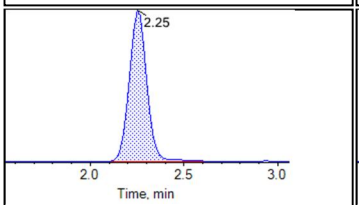
d3-MeFOSAA



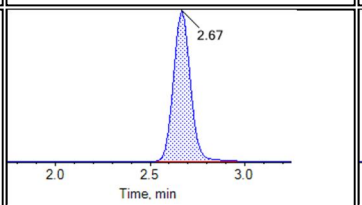
d5-EtFOSAA



13C5-PFHxA



13C4-PFHpA



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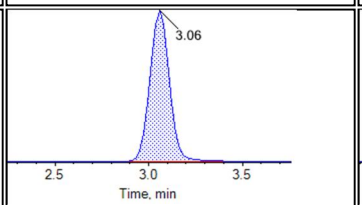

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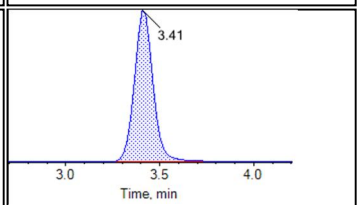

13C6-PFDA

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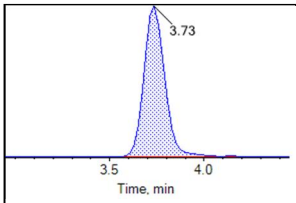
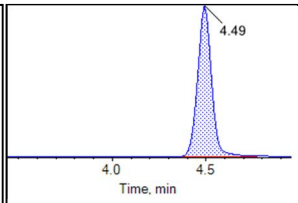



13C7-PFUnA

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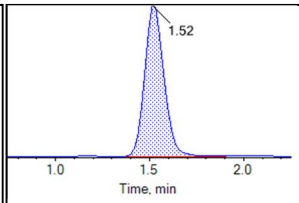


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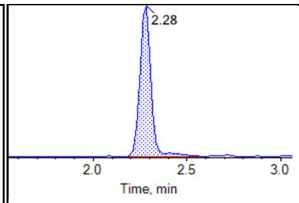
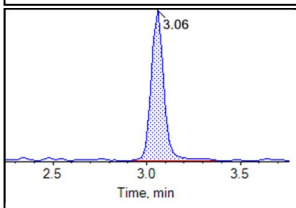



13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:12:02 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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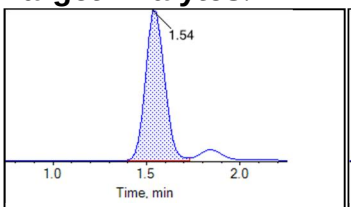

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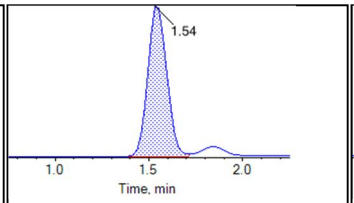

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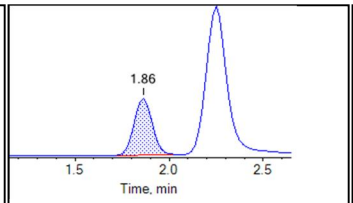

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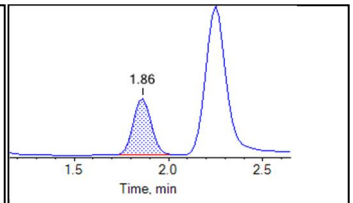

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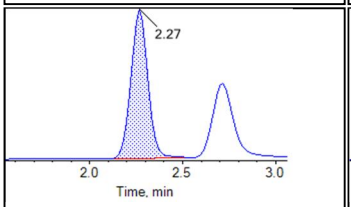

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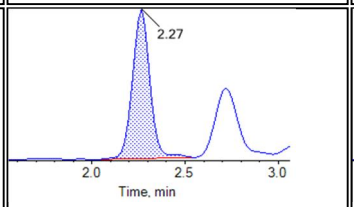

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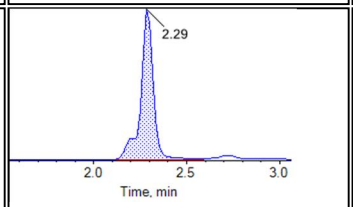

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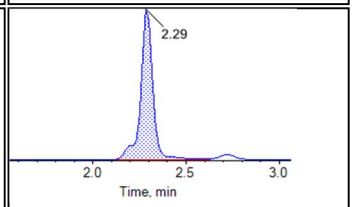

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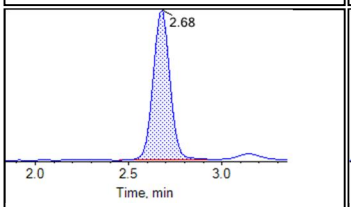

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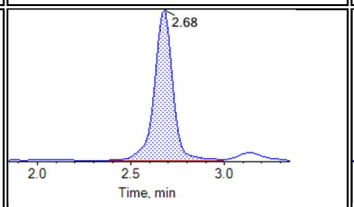

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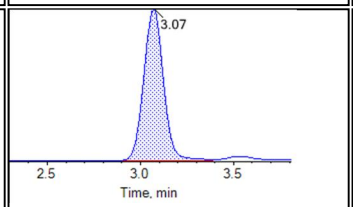

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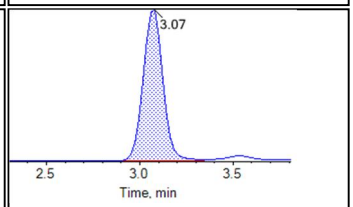

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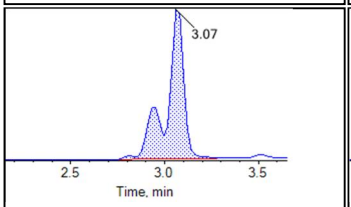

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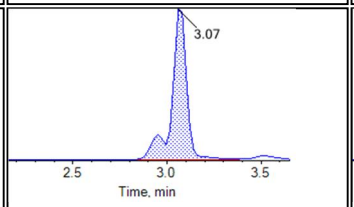

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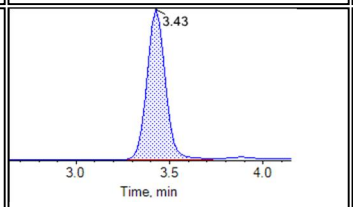

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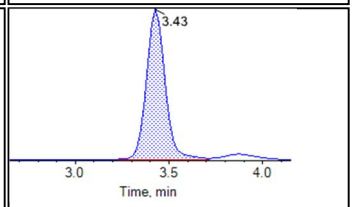

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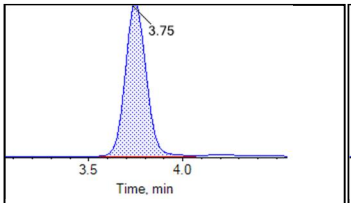

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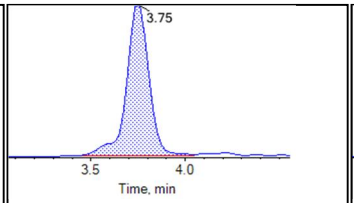

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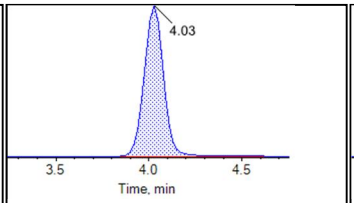

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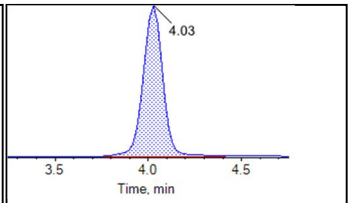

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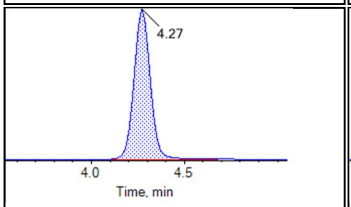

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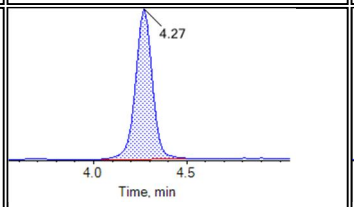

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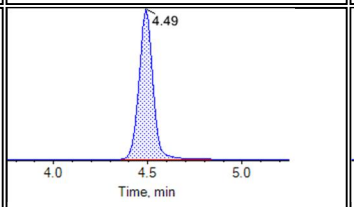

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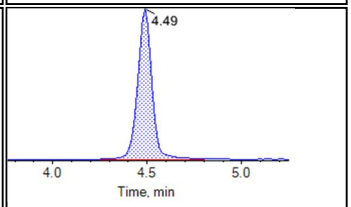

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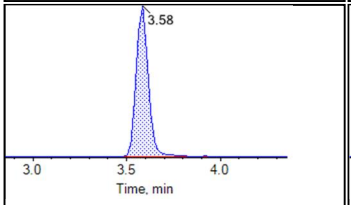

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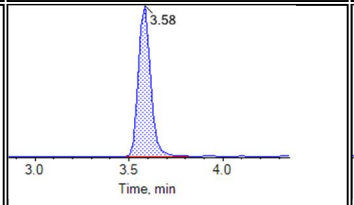

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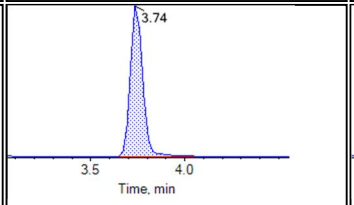

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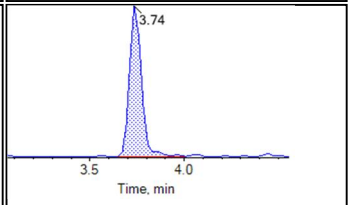

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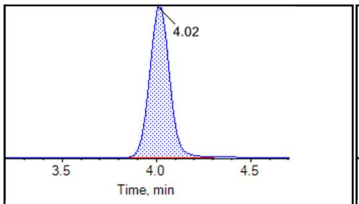

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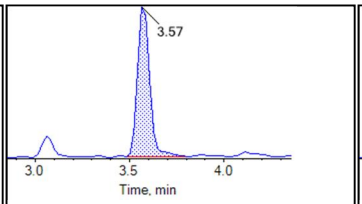

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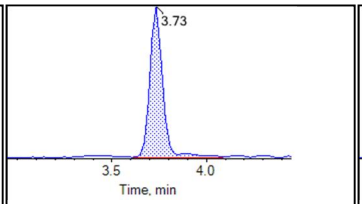

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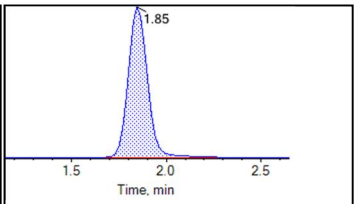

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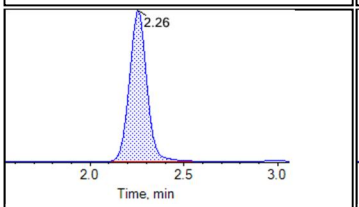

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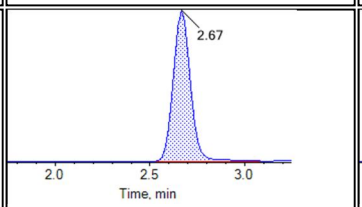

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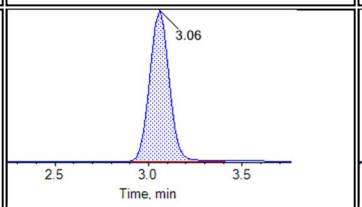

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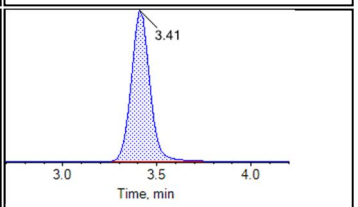

13C6-PFDA

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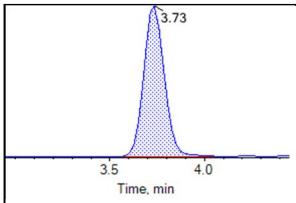
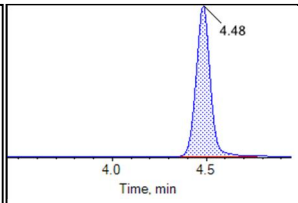



13C7-PFUnA

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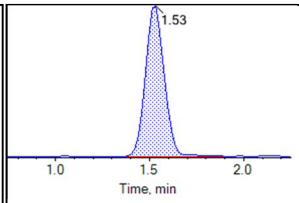


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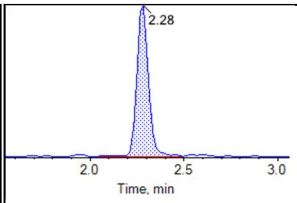


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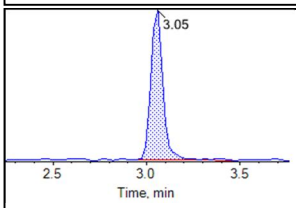


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:22:53 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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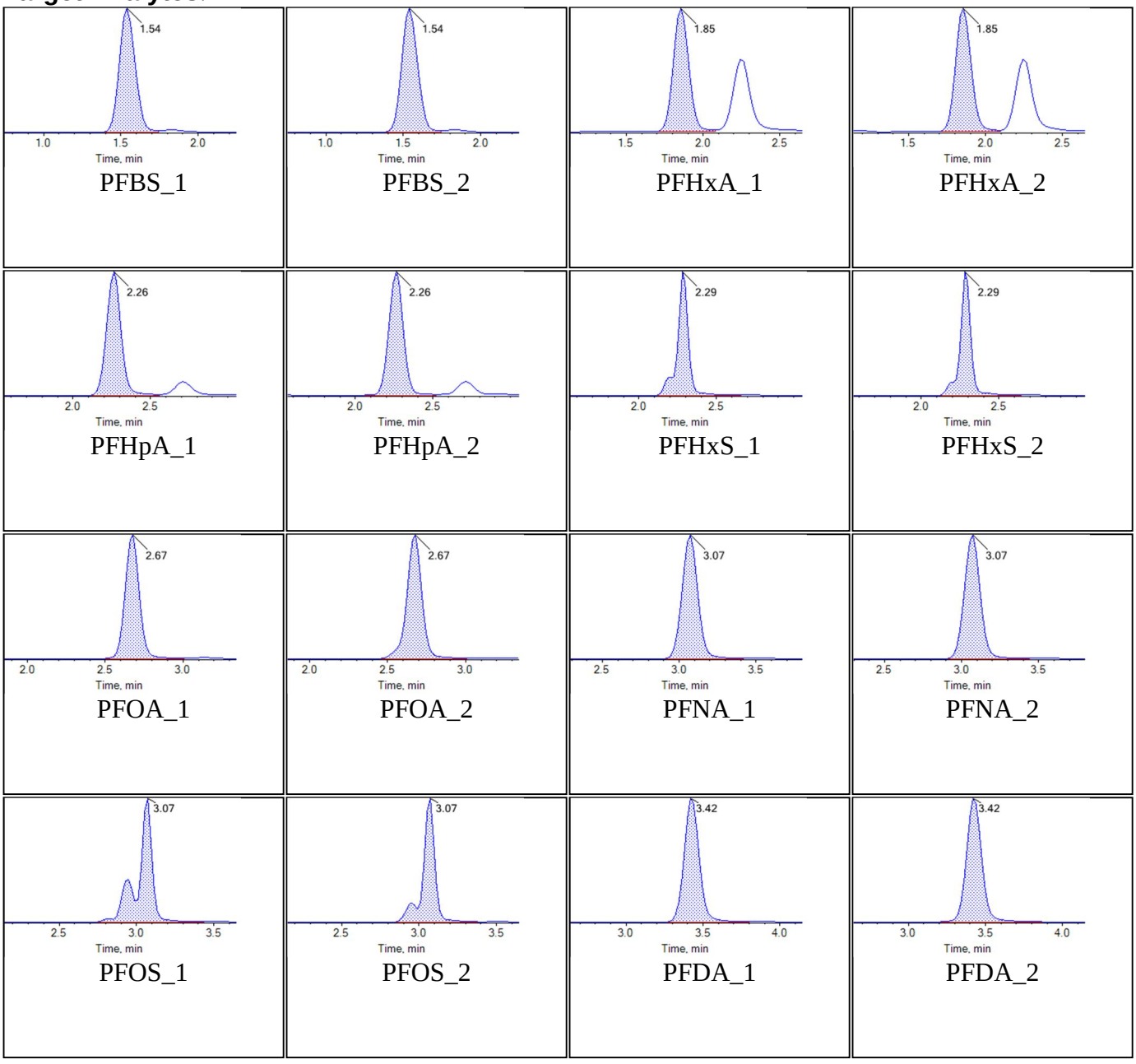

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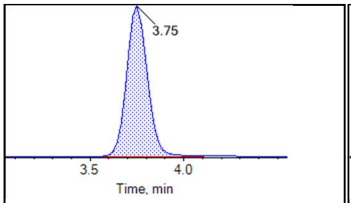
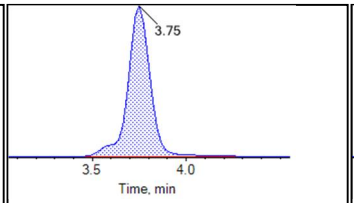


PFUnA_1



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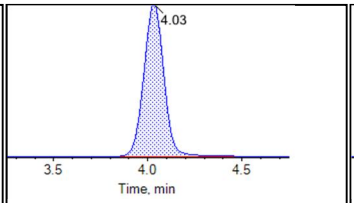

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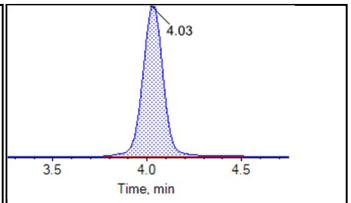

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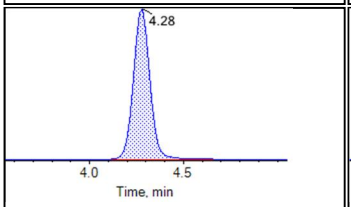

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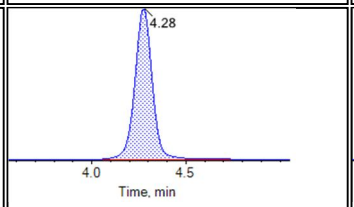

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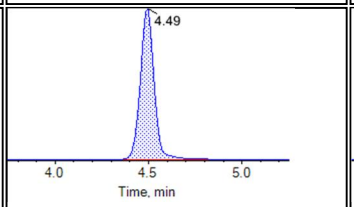

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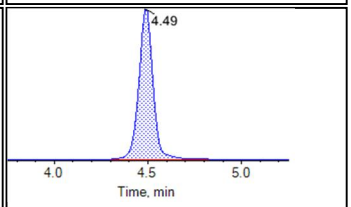

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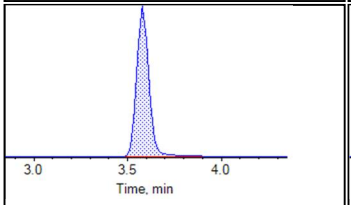

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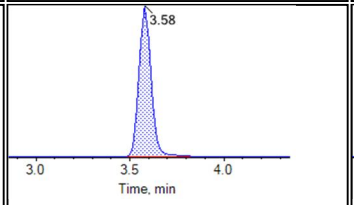

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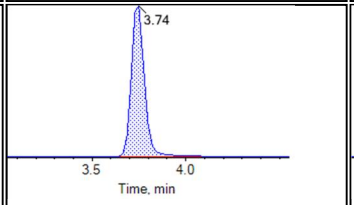

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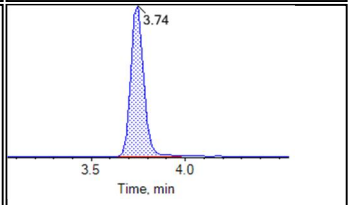

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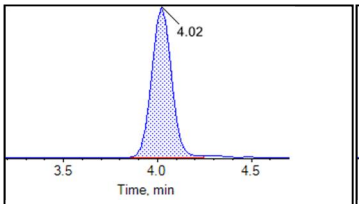

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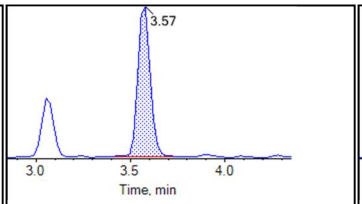

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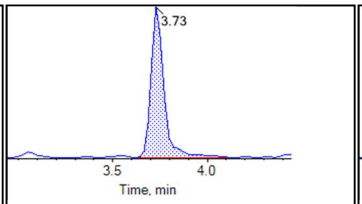

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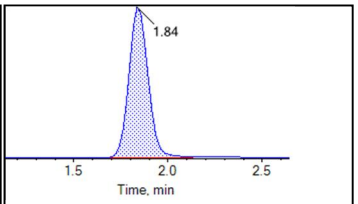

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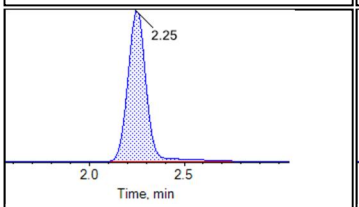

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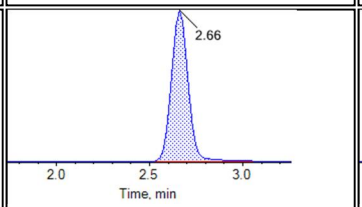

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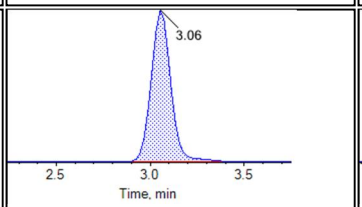

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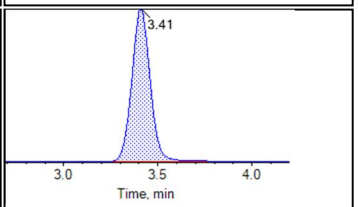

13C6-PFDA

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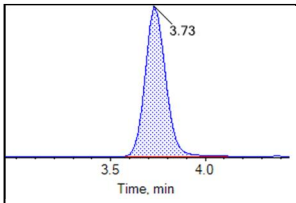
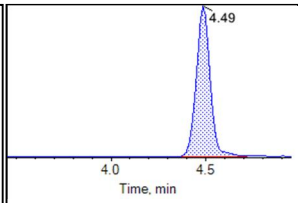



13C7-PFUnA

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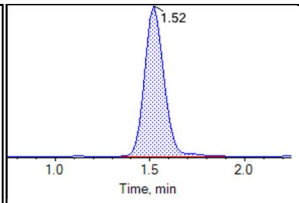


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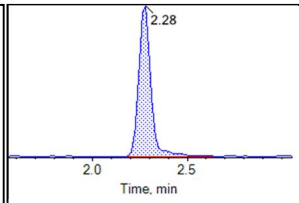


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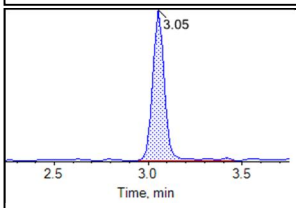


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:33:45 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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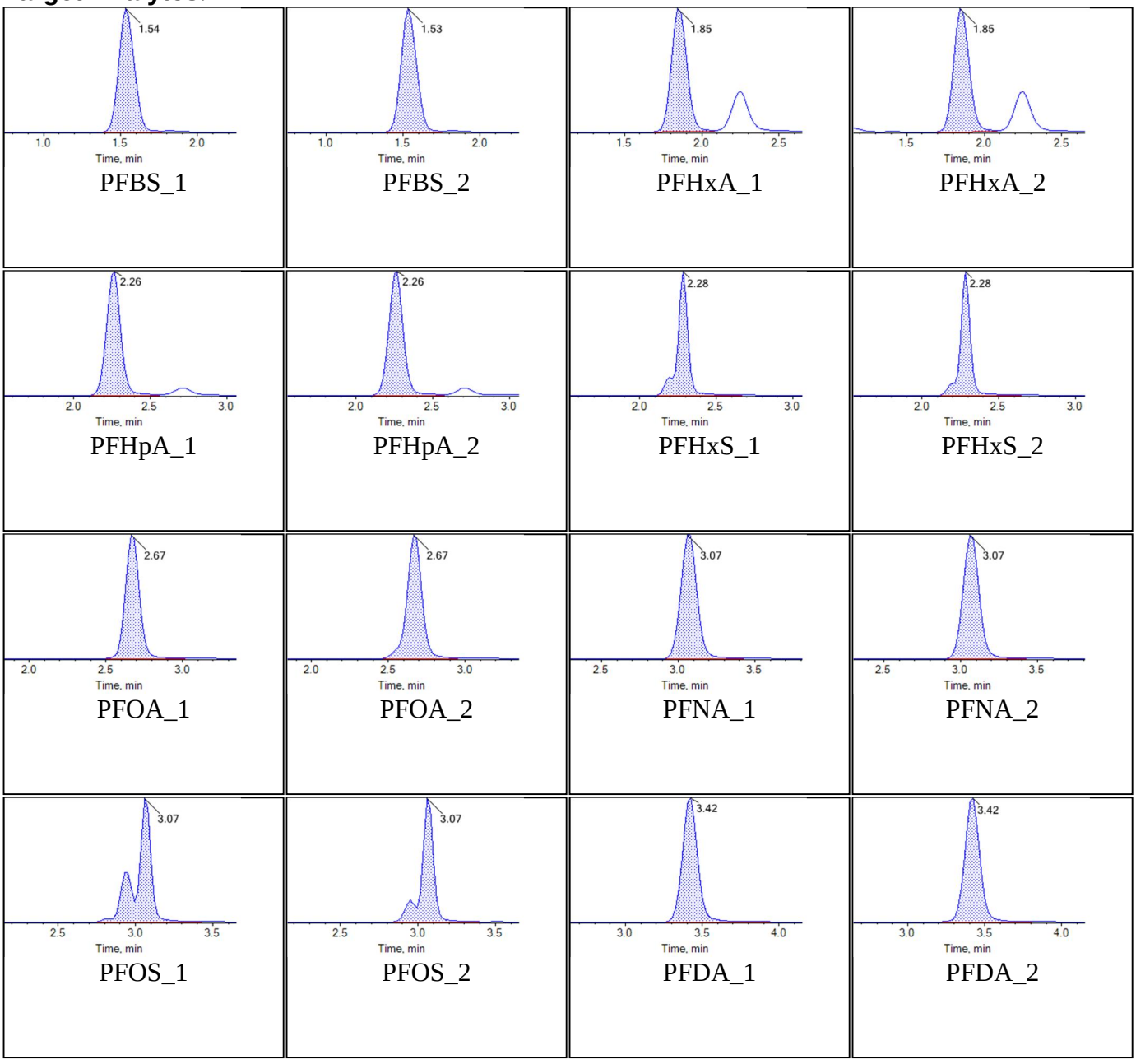

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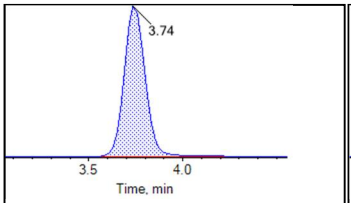

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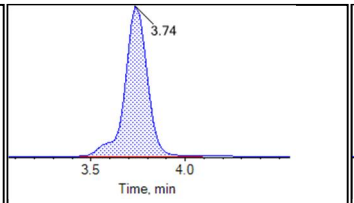

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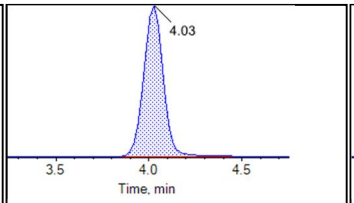

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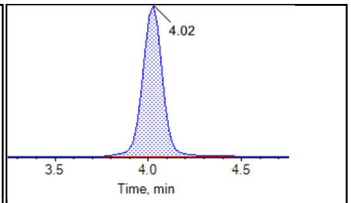

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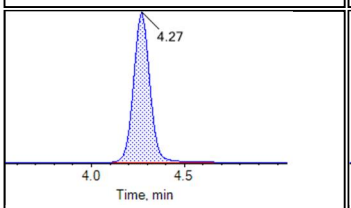

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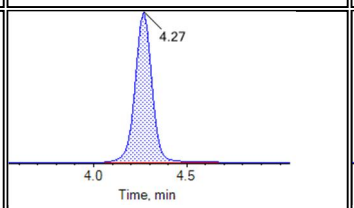

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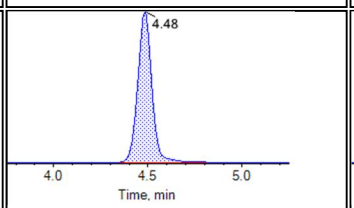

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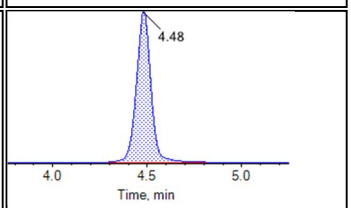

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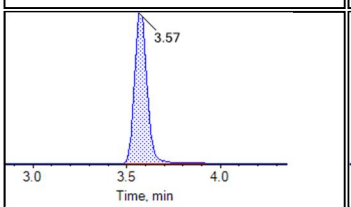

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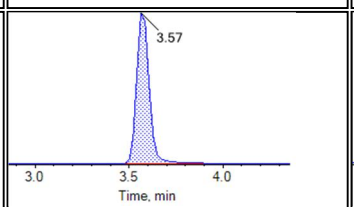

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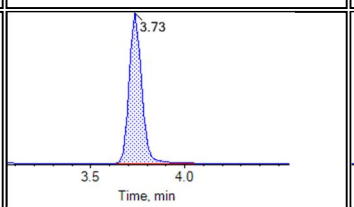

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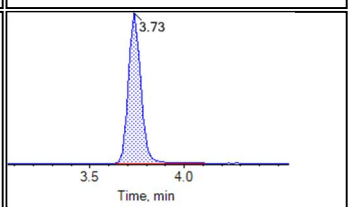

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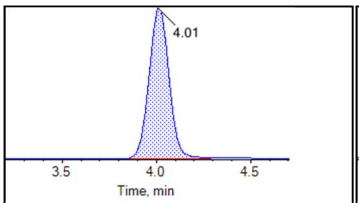

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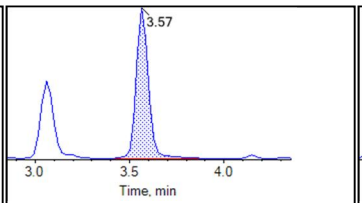

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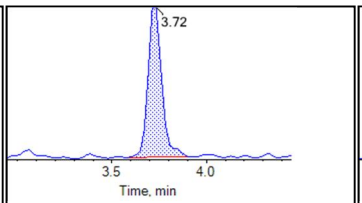

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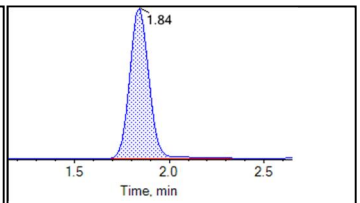

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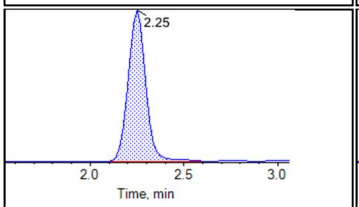

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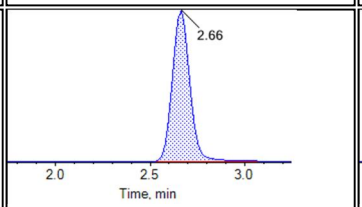

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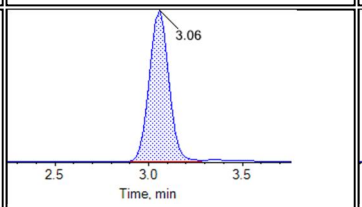

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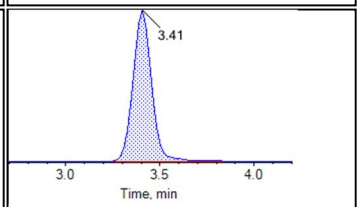

13C6-PFDA

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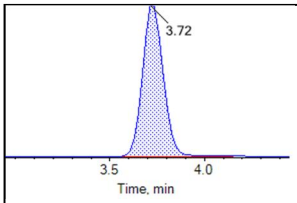
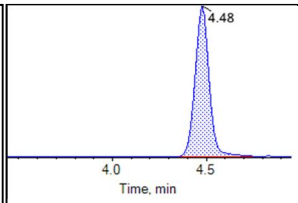



13C7-PFUnA

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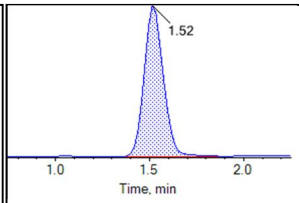
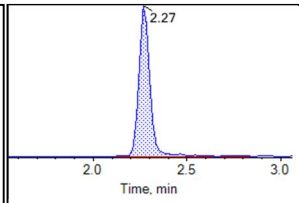



13C3-PFBS

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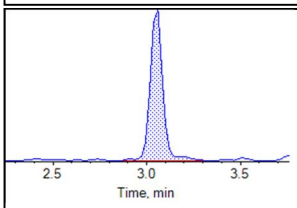


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:44:37 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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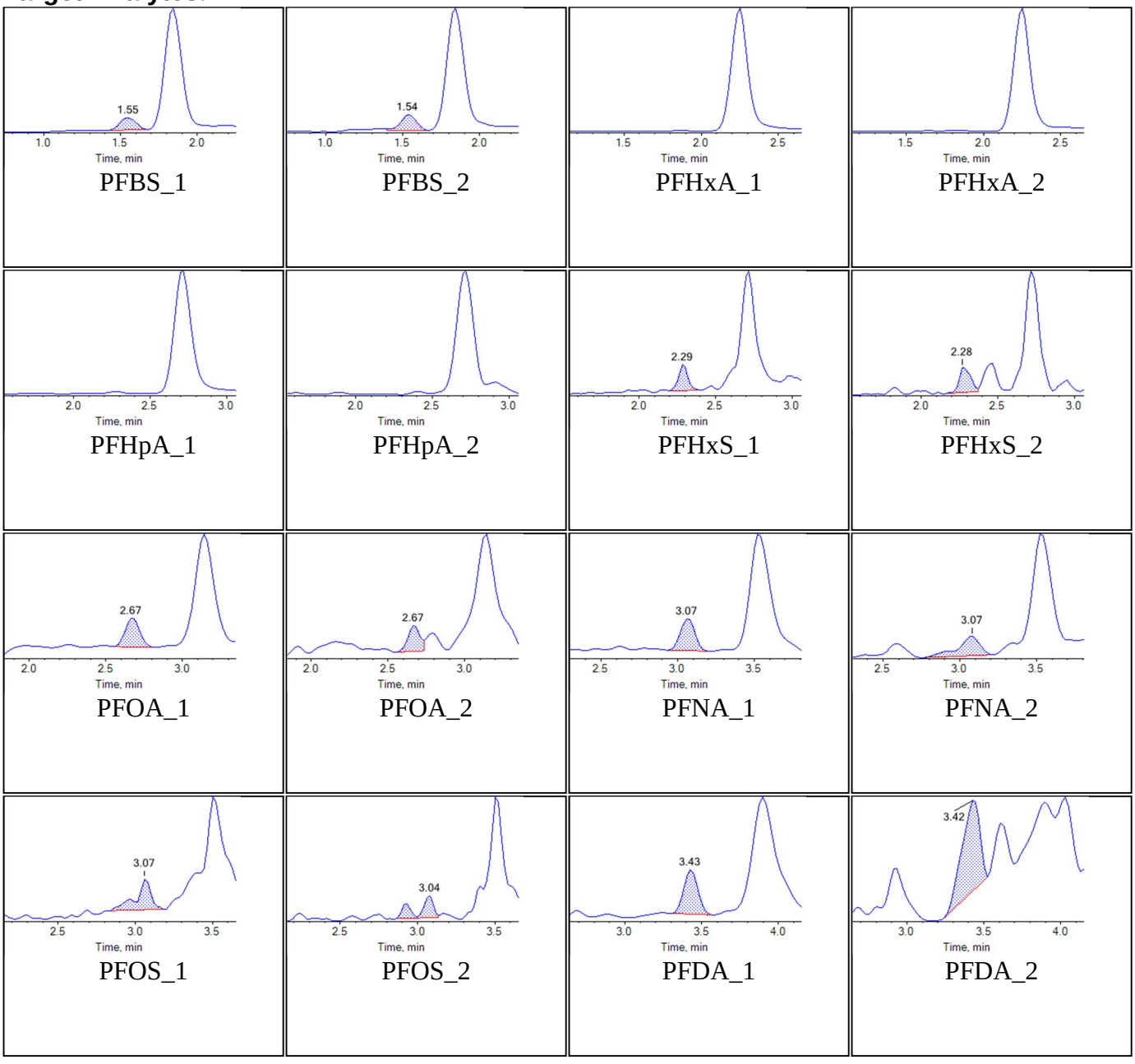

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Chromatogram Report

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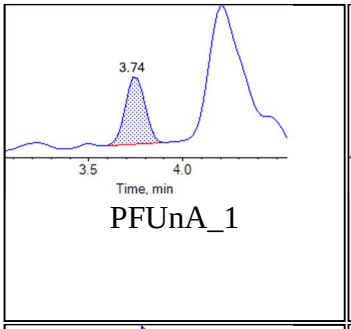

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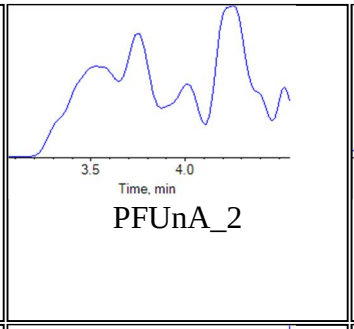

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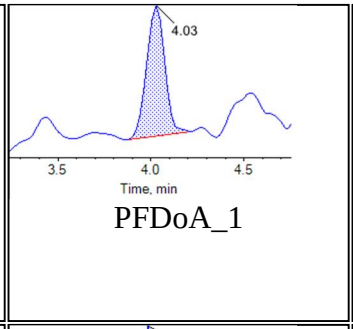

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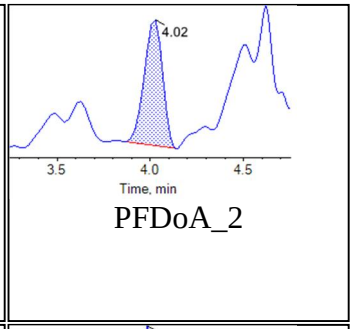

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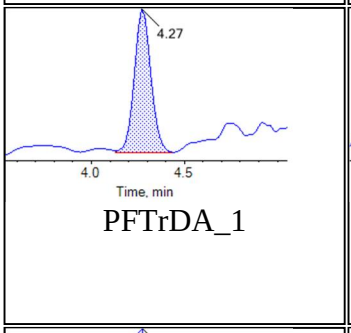

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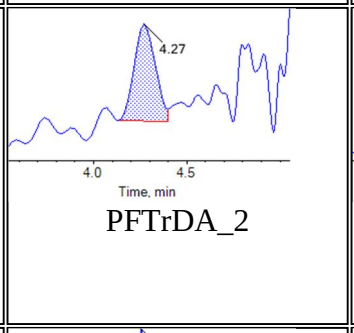

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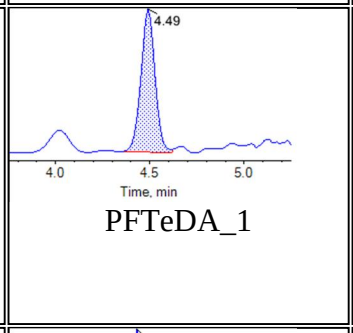

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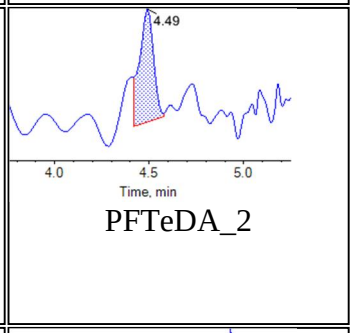

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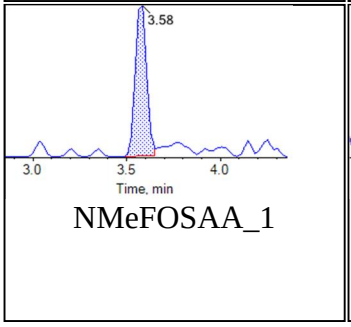

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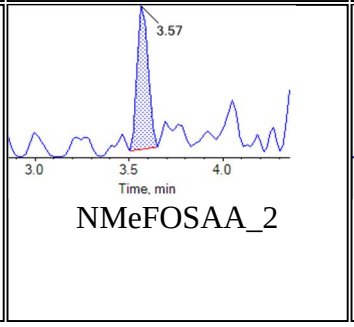

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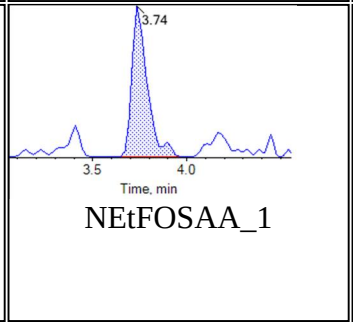

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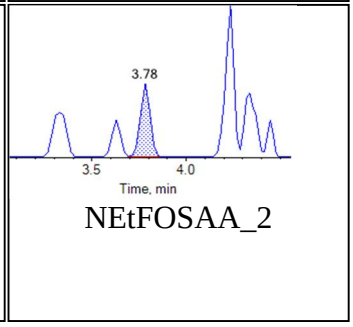

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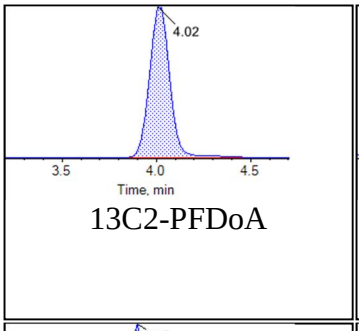

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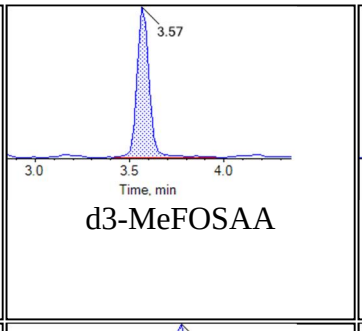

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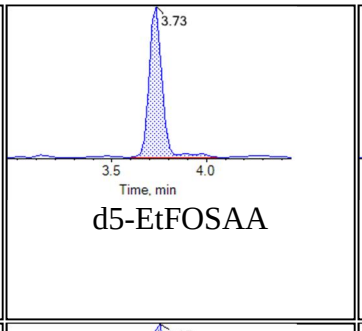

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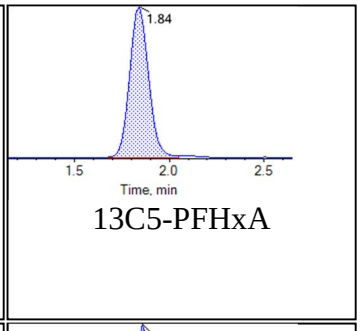

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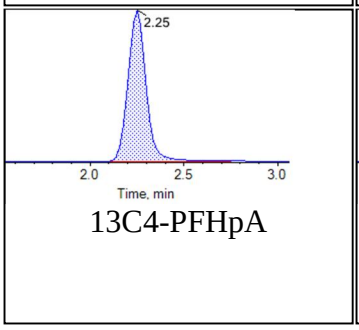

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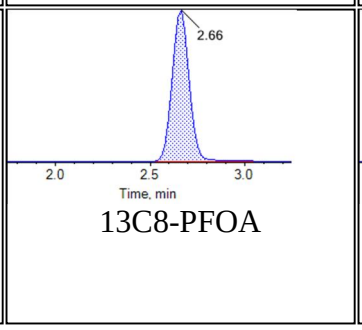

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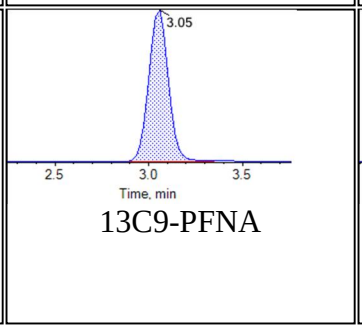

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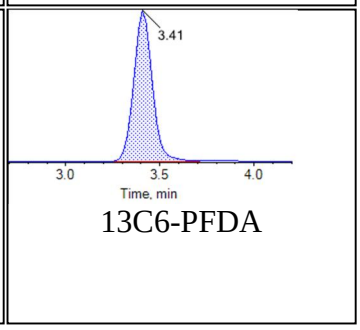

13C6-PFDA

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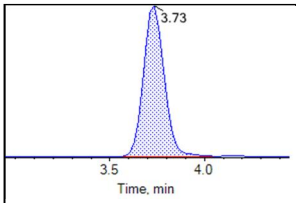


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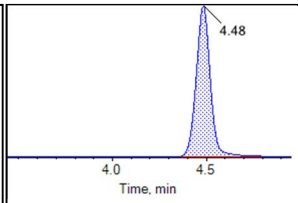


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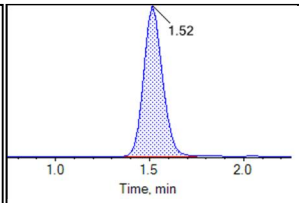


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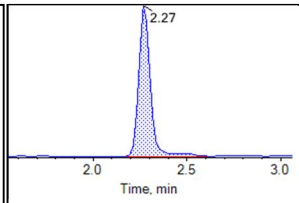


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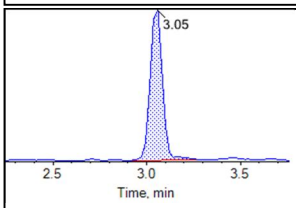


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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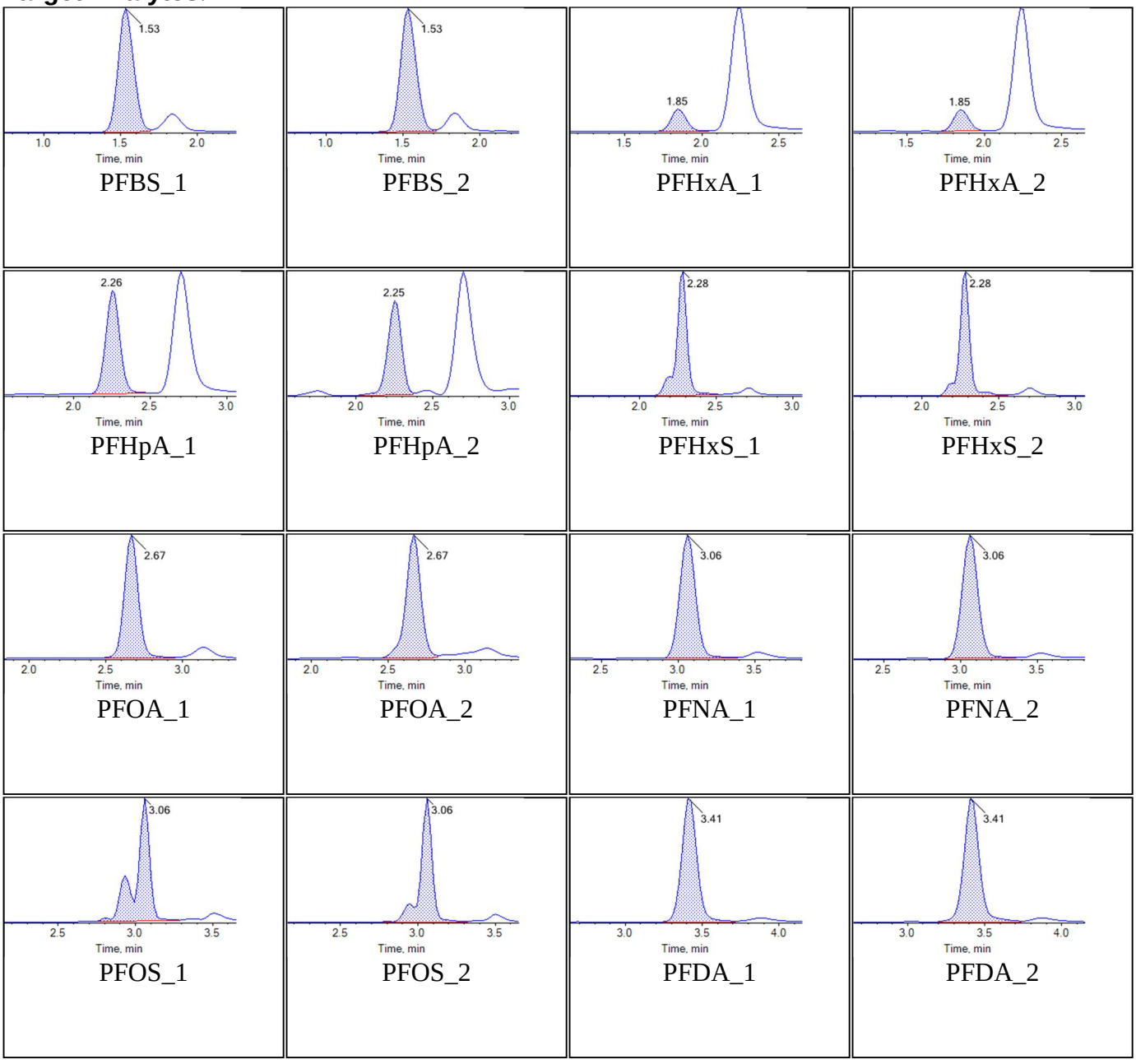

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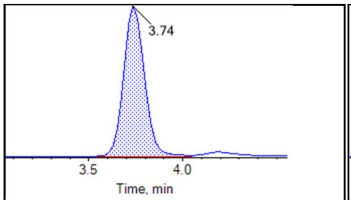

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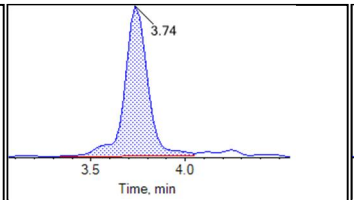

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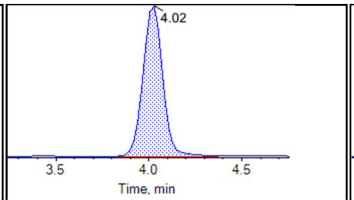

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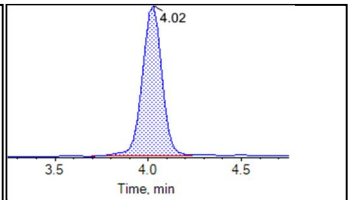

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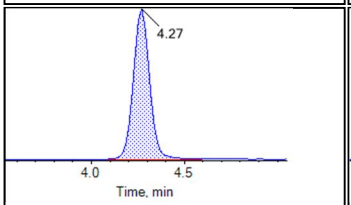

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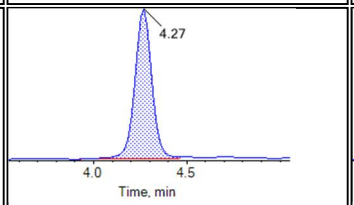

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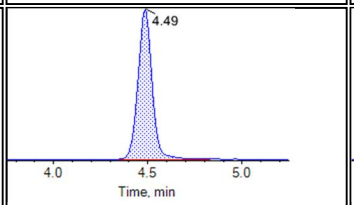

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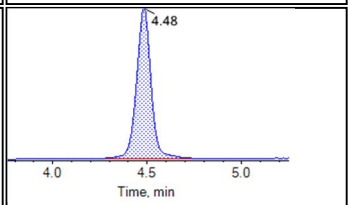

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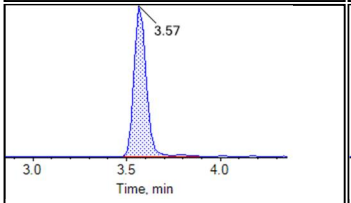

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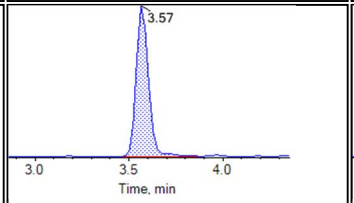

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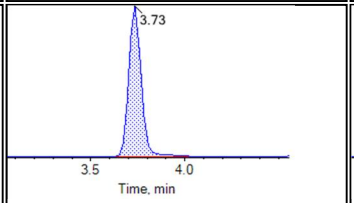

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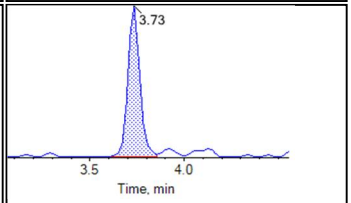

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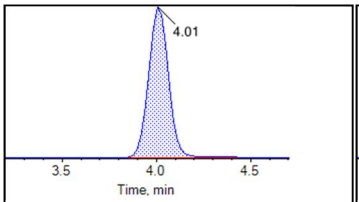

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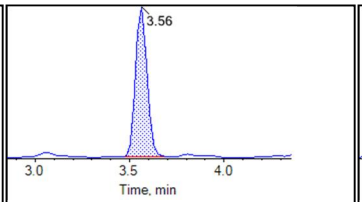

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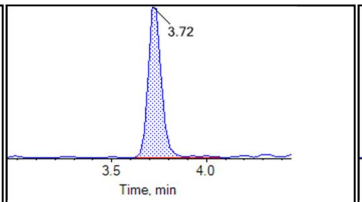
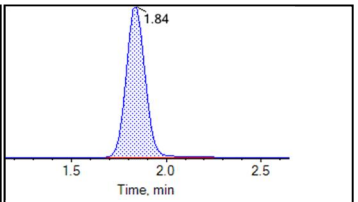


d5-EtFOSAA



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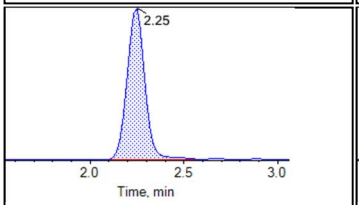

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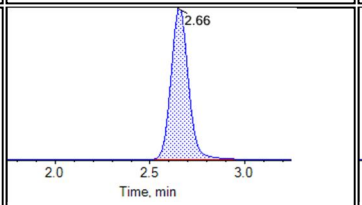

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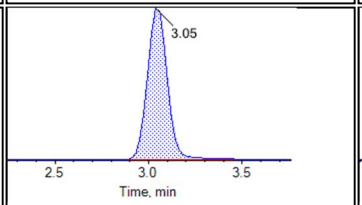

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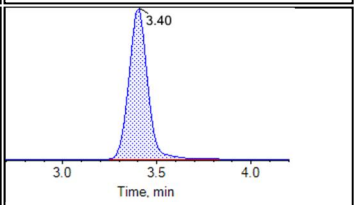

13C6-PFDA

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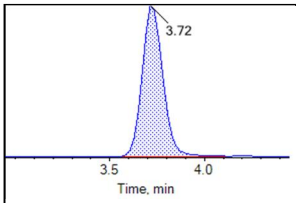


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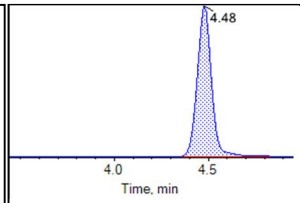


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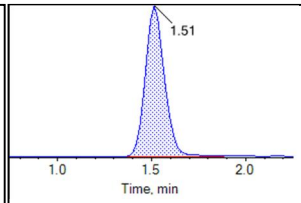


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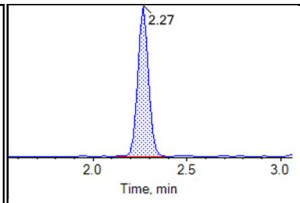


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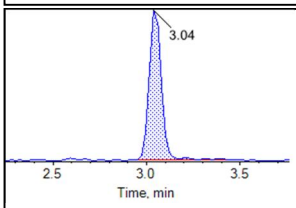


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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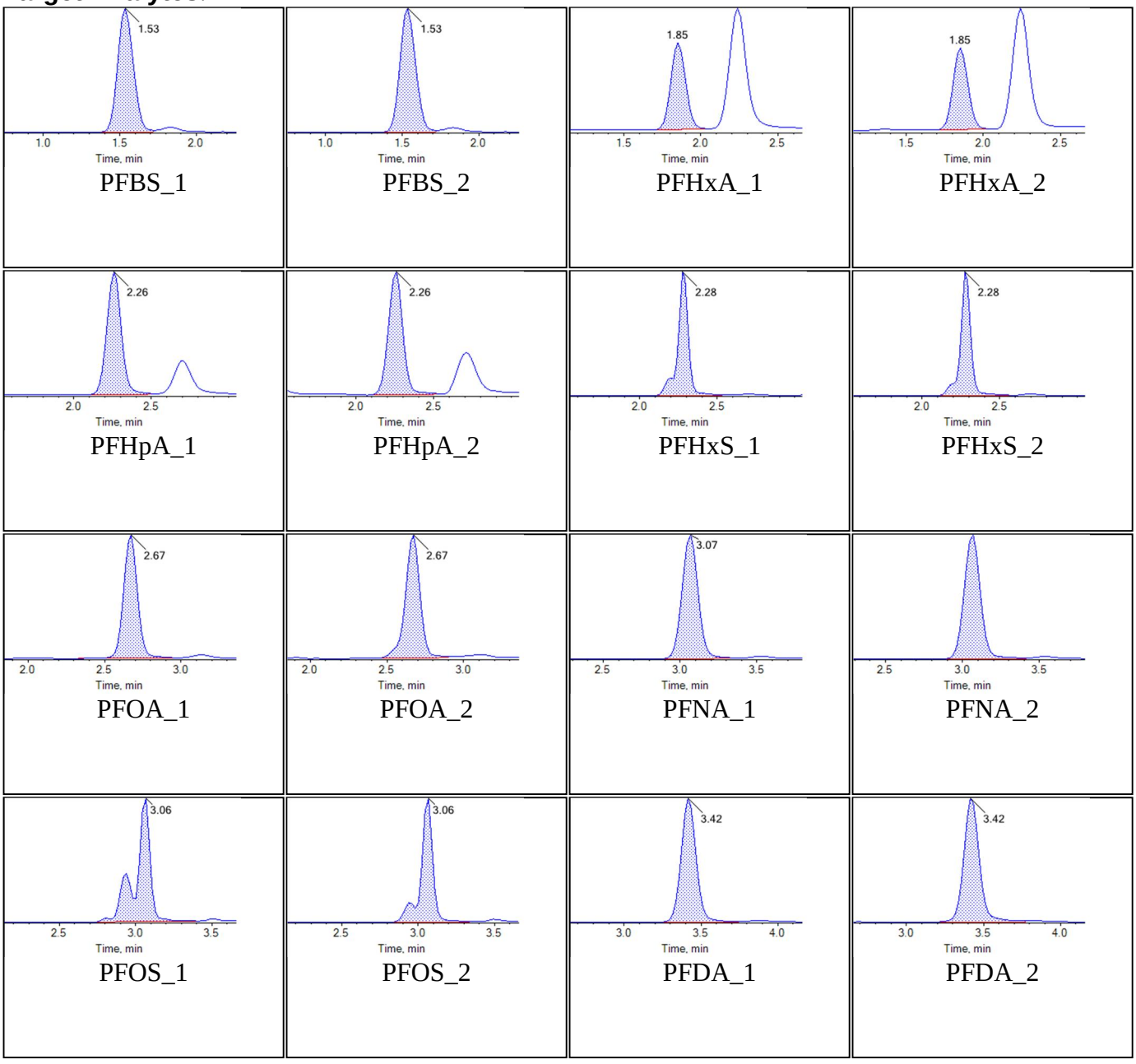

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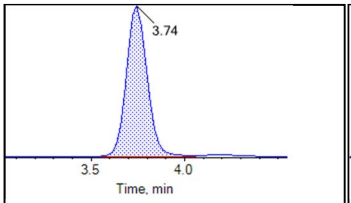

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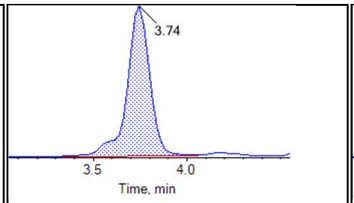

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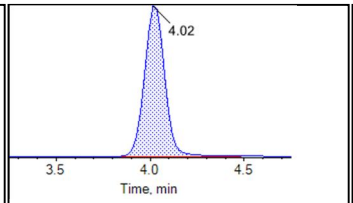

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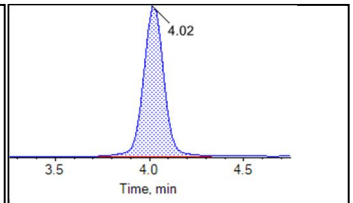

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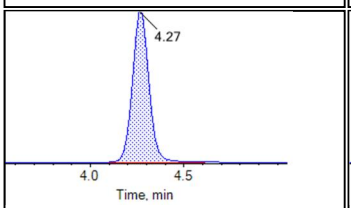

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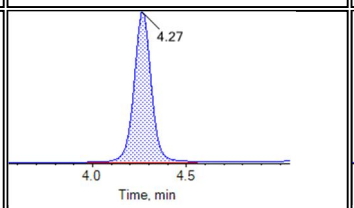

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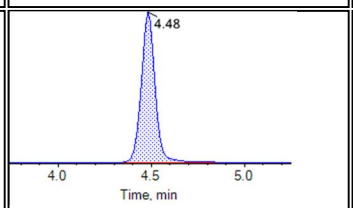

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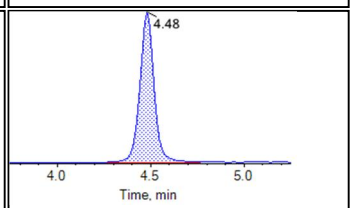

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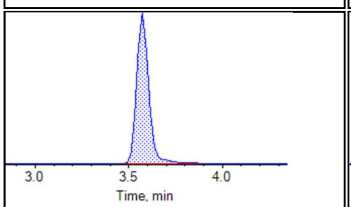

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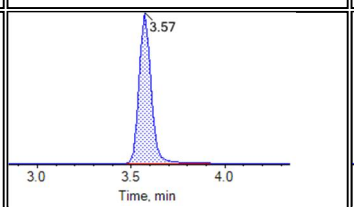

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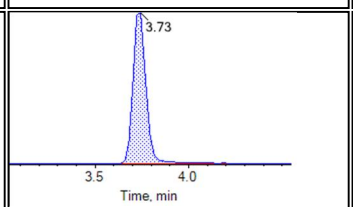

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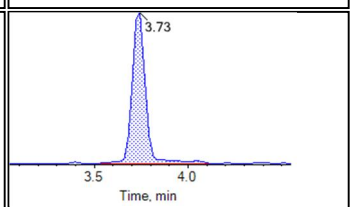

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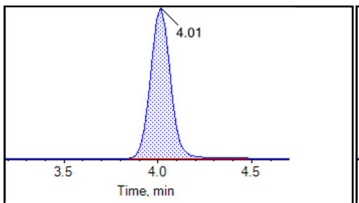

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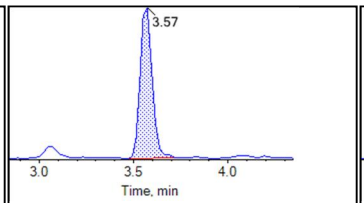
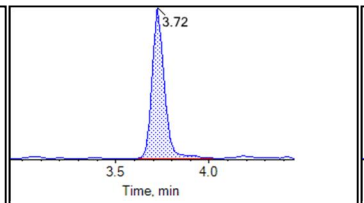


d3-MeFOSAA



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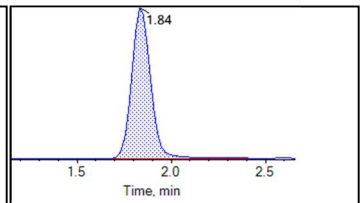

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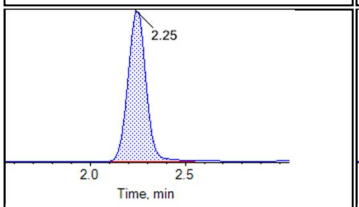

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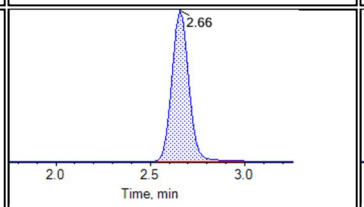

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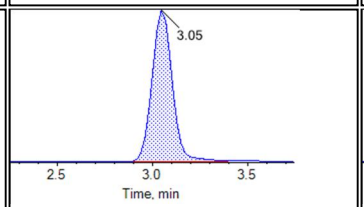

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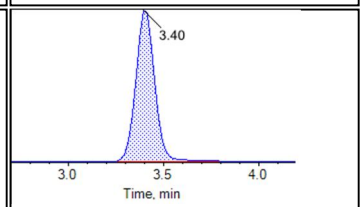

13C6-PFDA

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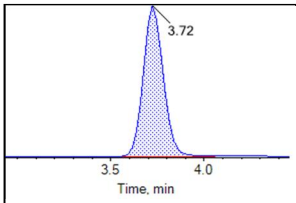


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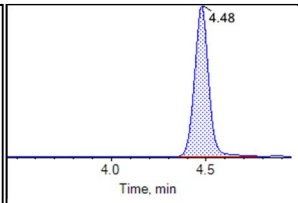


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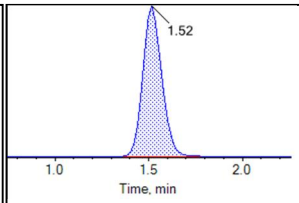


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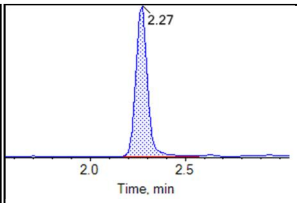


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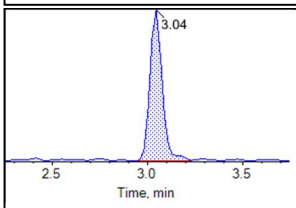


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | CR884PB-FS(0) | **Injection Vial** | 24 |
| **Sample ID** | Procedural Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:50:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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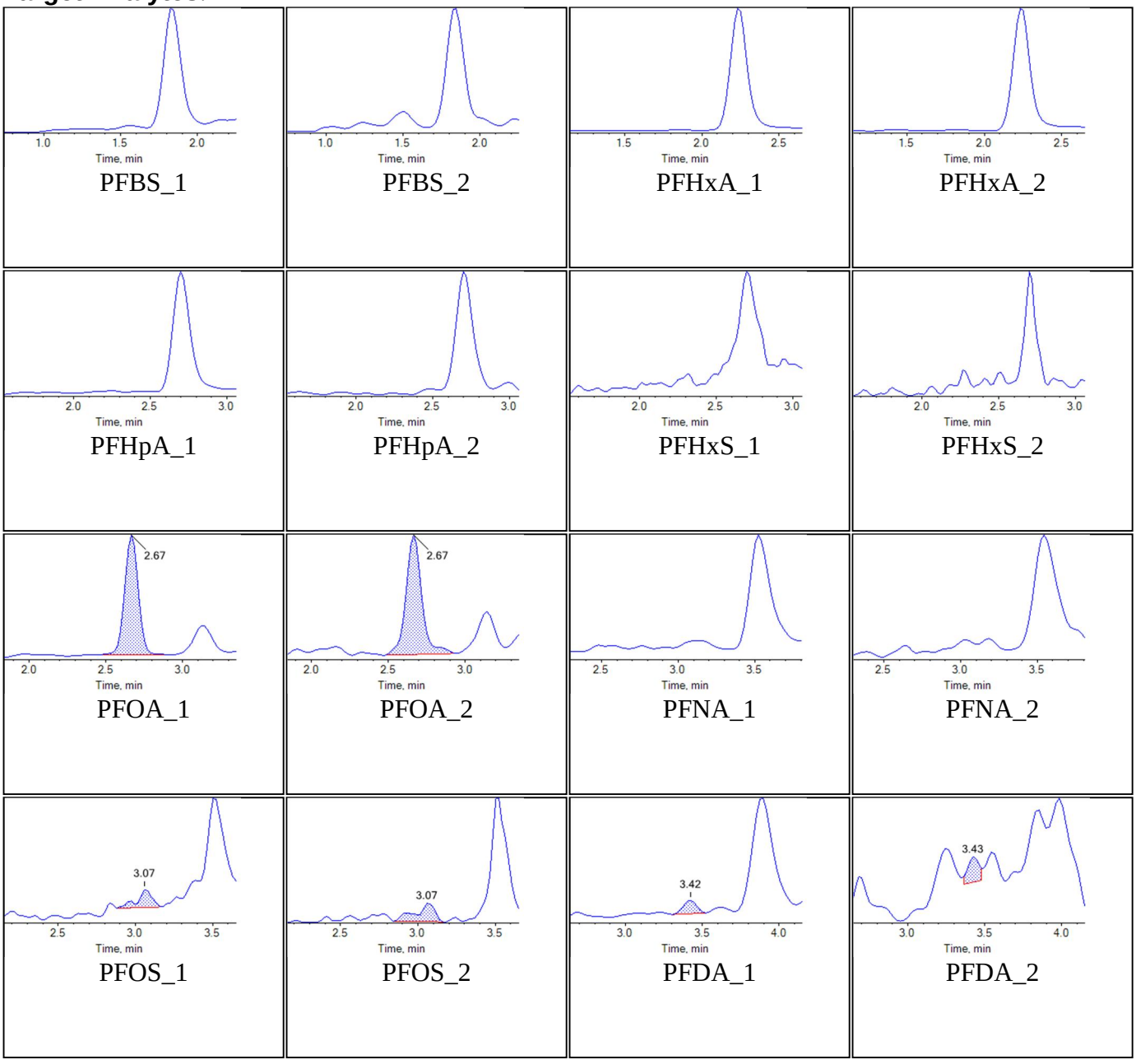

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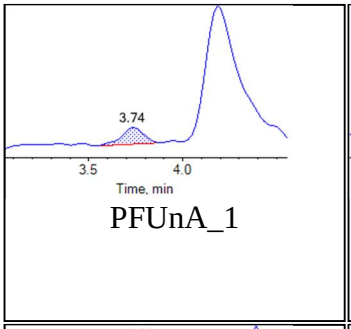

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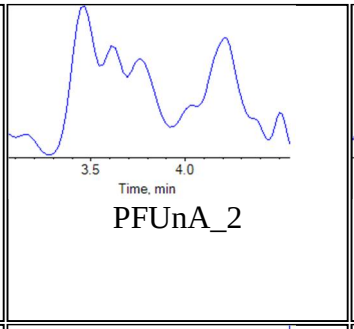

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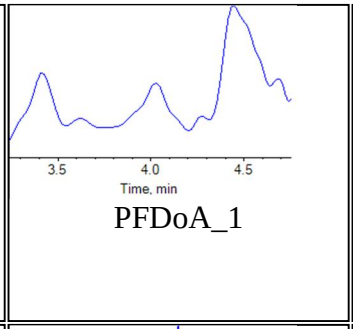

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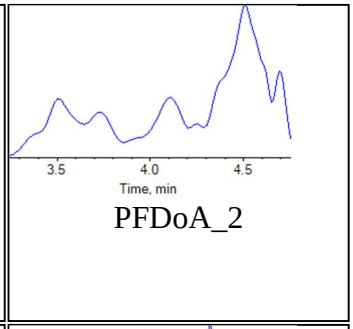

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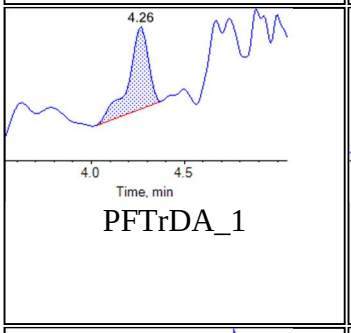

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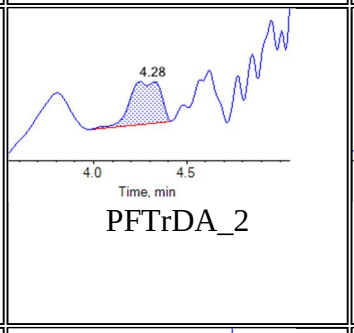

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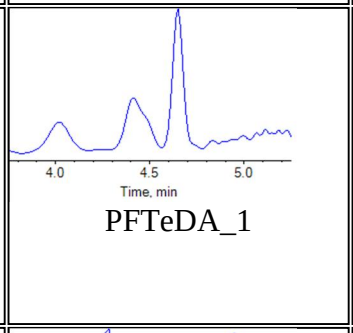

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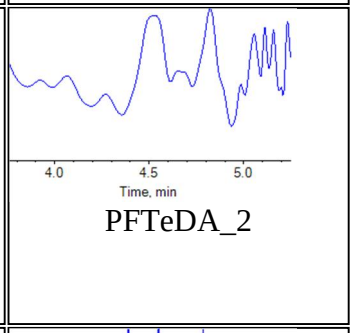

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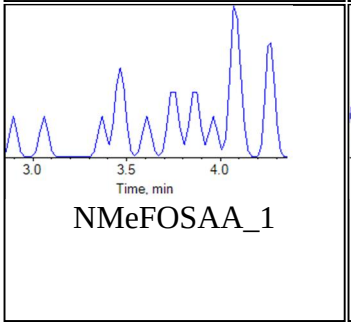

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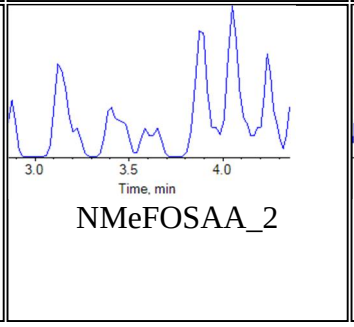

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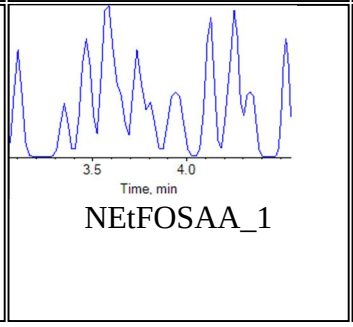

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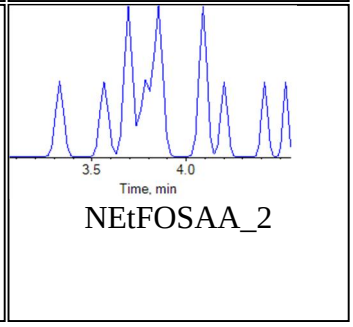

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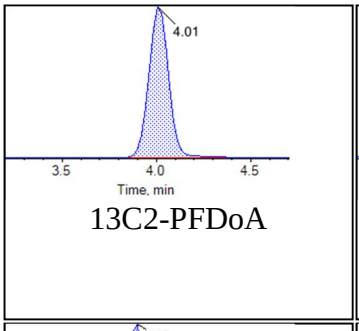

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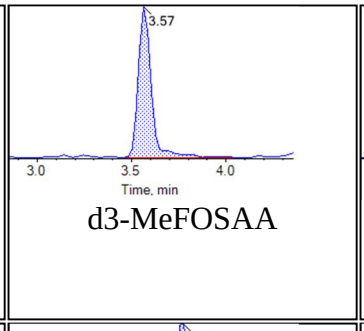

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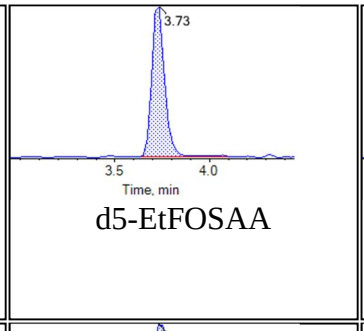
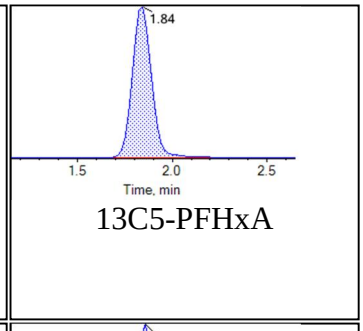


d5-EtFOSAA



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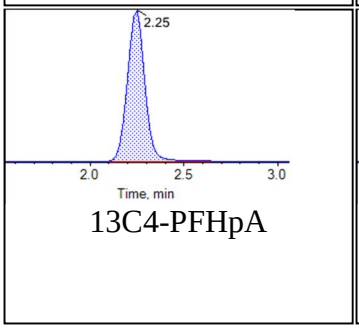

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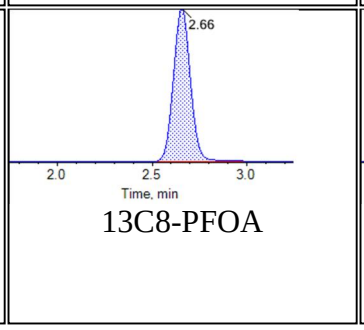

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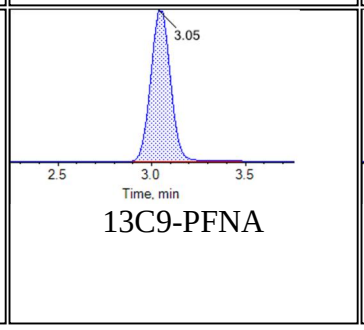

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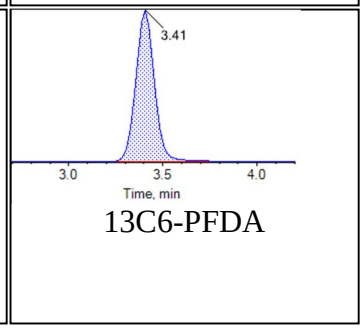

13C6-PFDA

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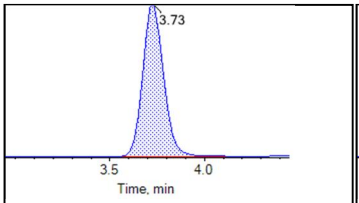


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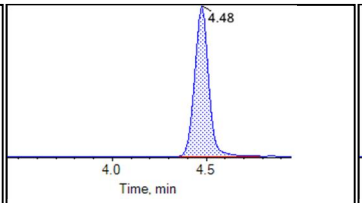


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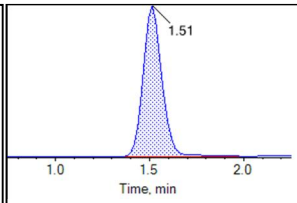


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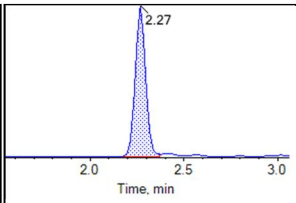


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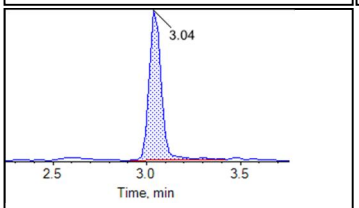


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | CR885LCS-FS(0) | **Injection Vial** | 25 |
| **Sample ID** | Laboratory Control Sample | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:00:52 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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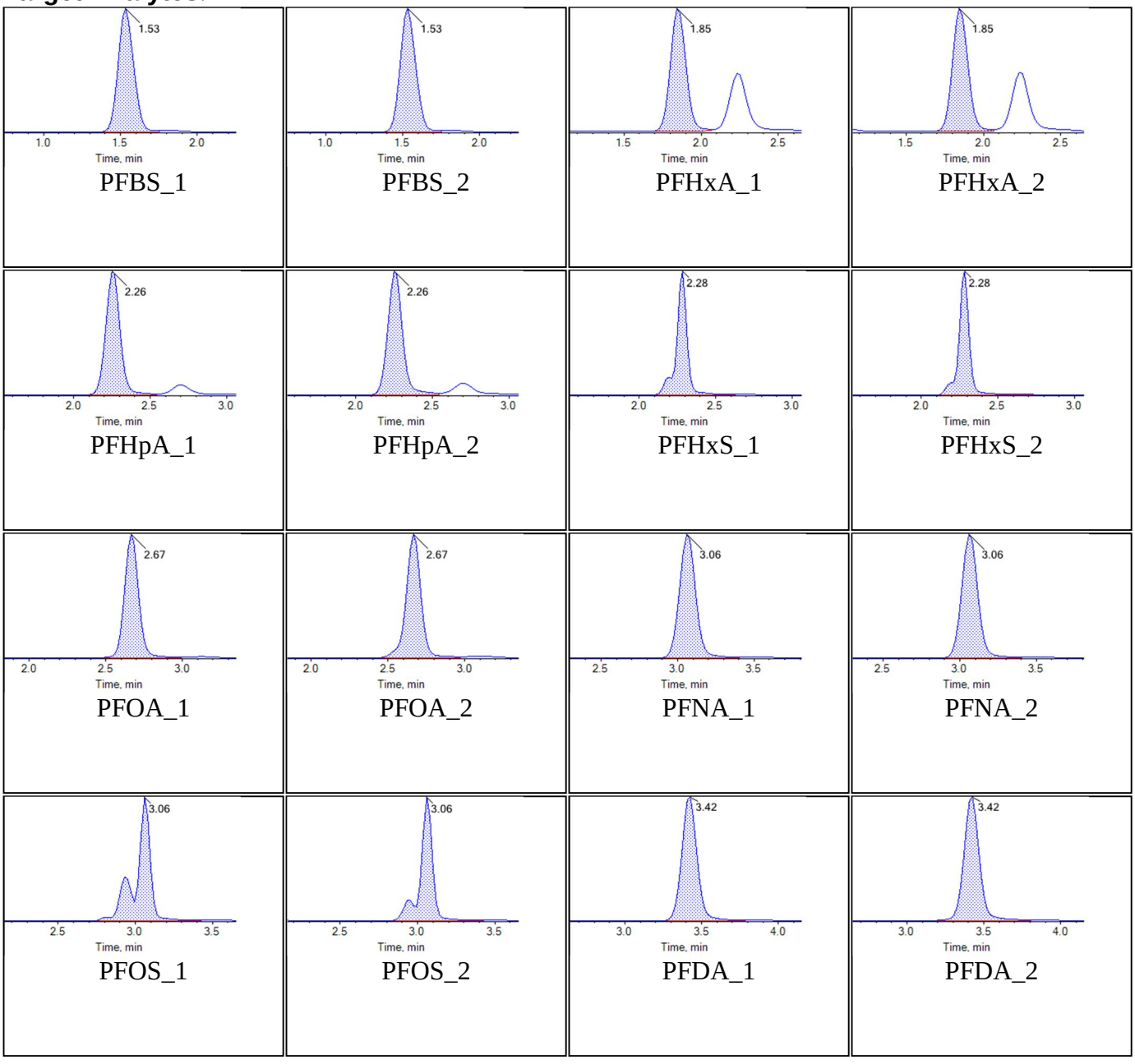

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Chromatogram Report

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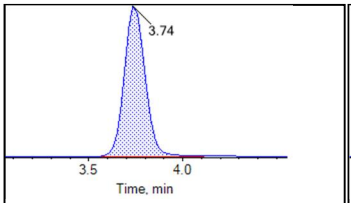

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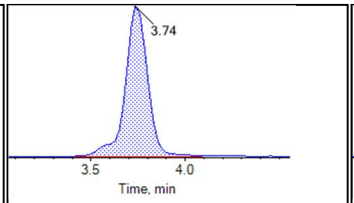

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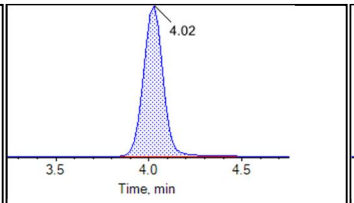

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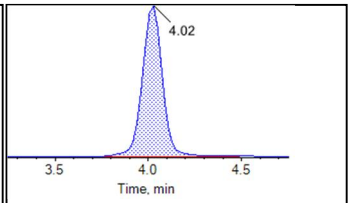

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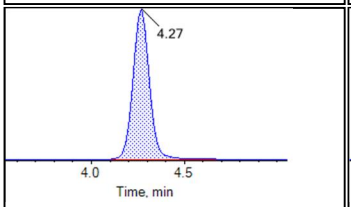

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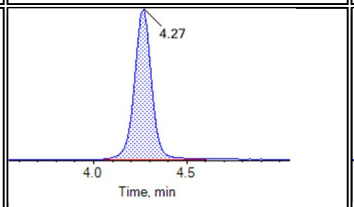

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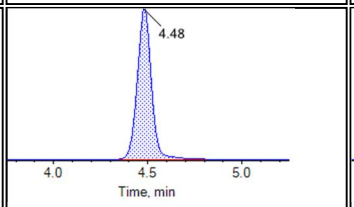

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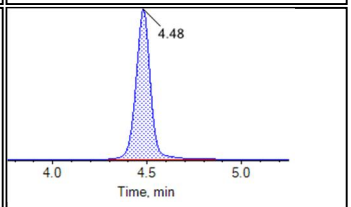

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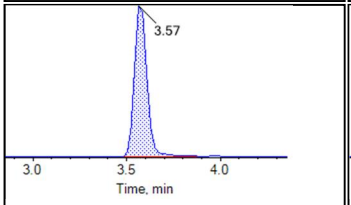

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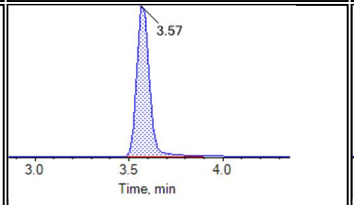

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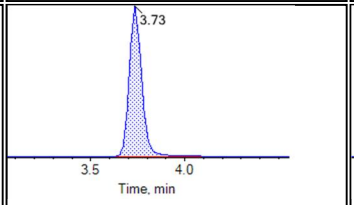

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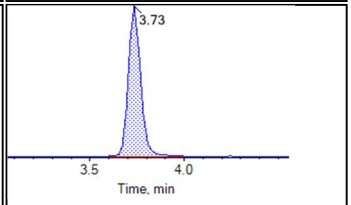

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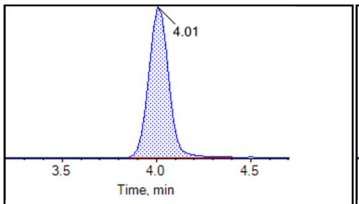

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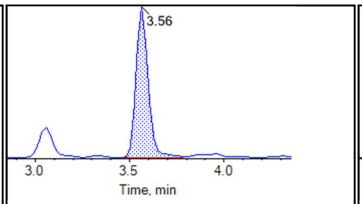

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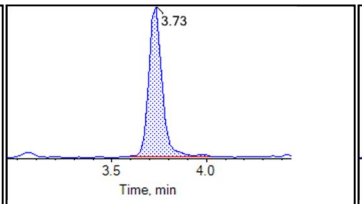

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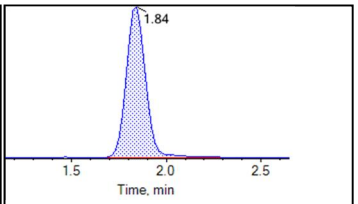

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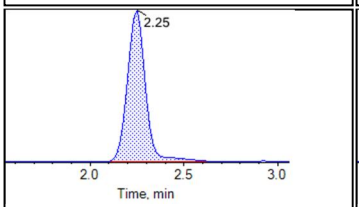

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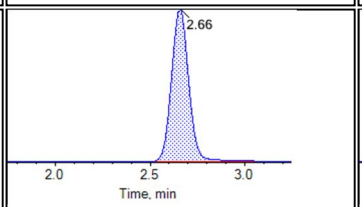

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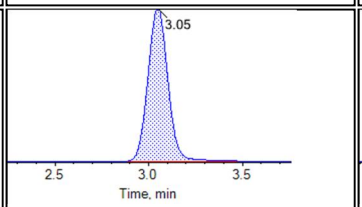

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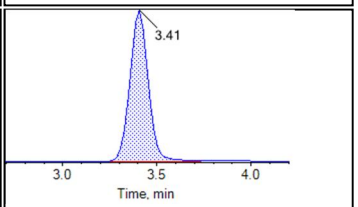

13C6-PFDA

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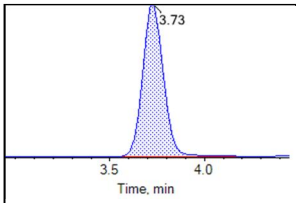


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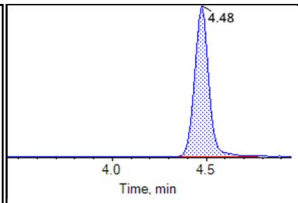


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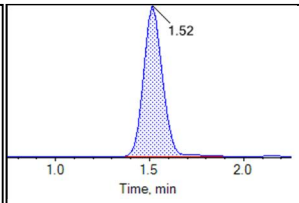


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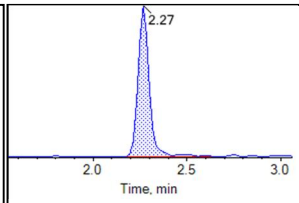


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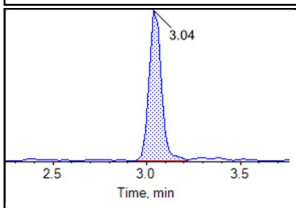


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8308-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-SO-FB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:11:44 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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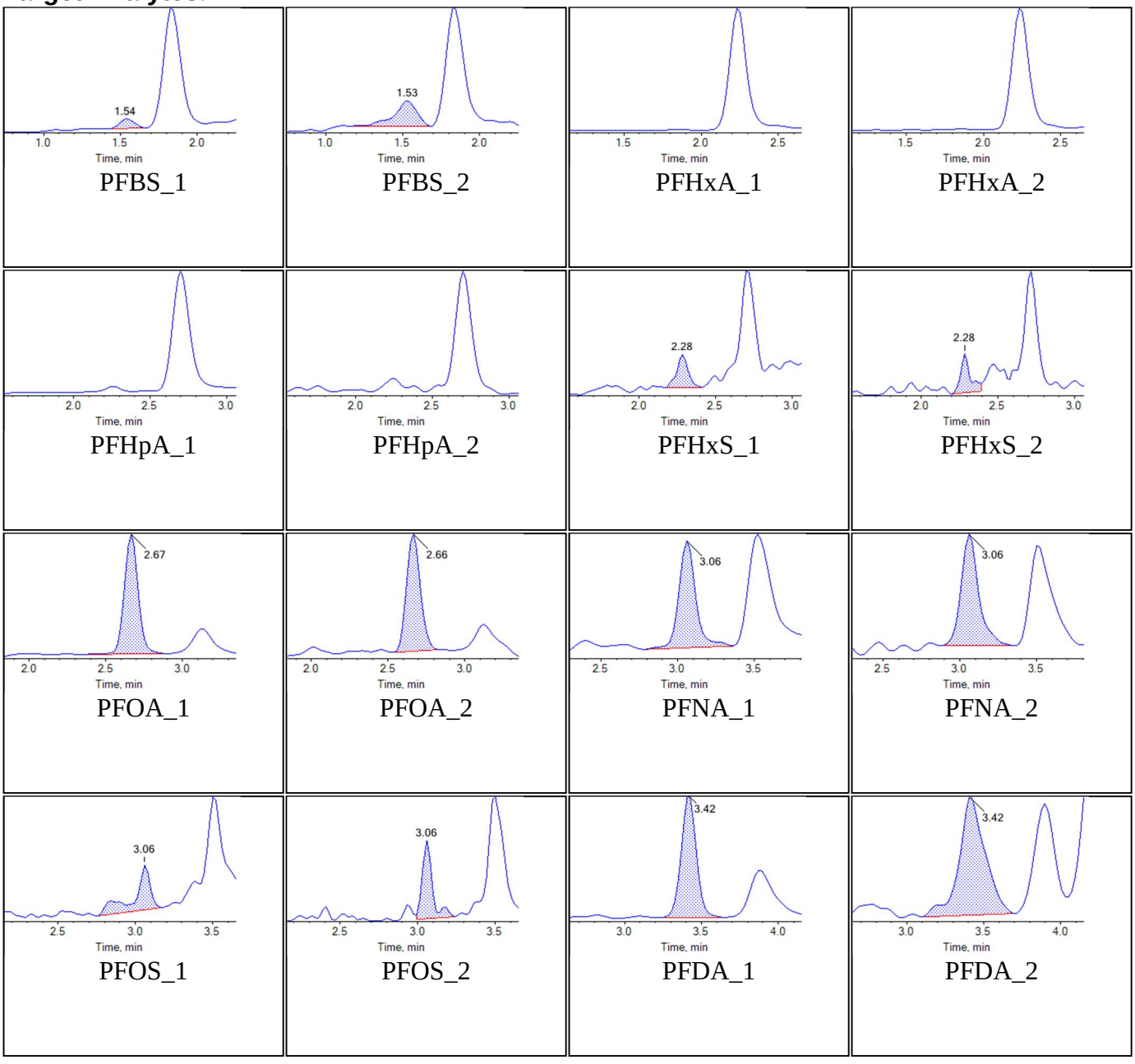

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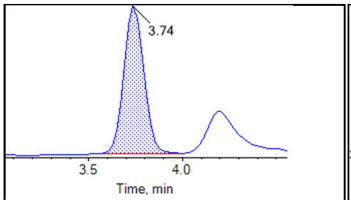

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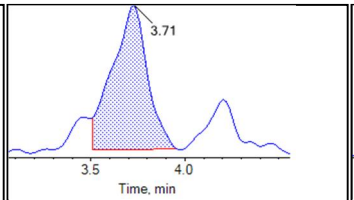

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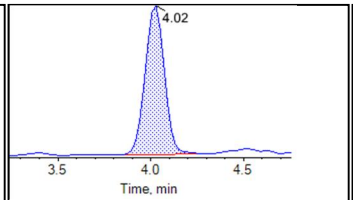

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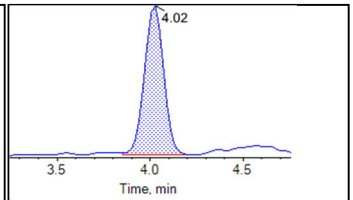

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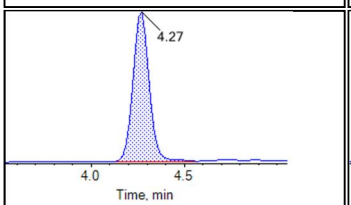

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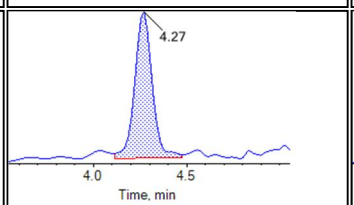

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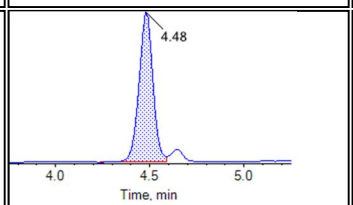

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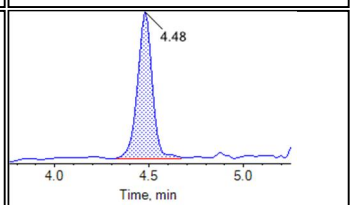

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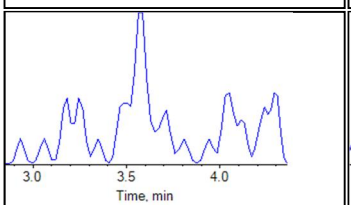

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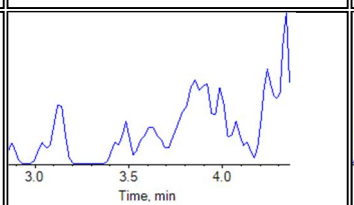

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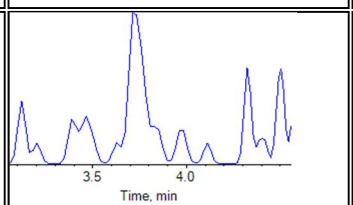

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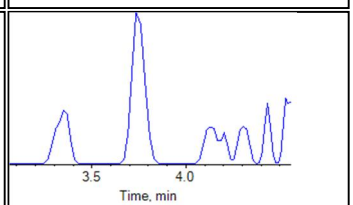

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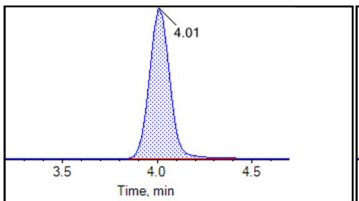

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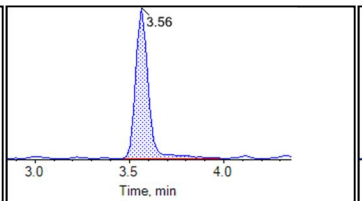
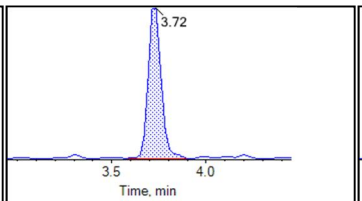


d3-MeFOSAA



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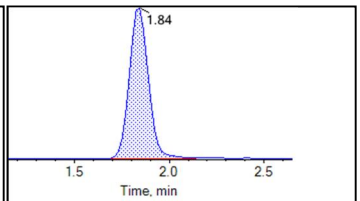

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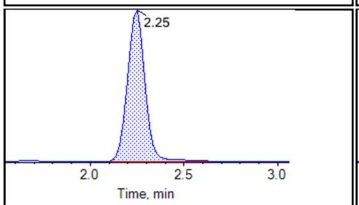

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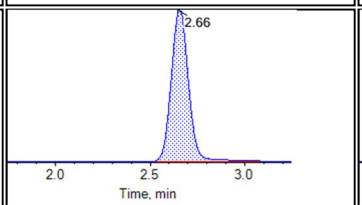

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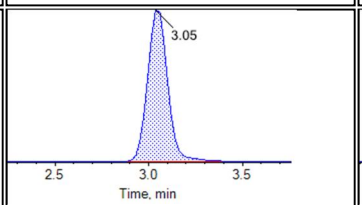

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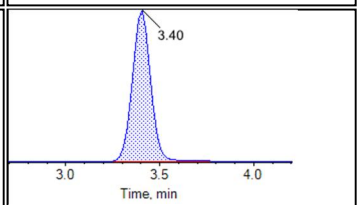

13C6-PFDA

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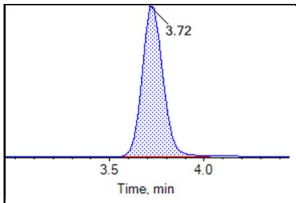


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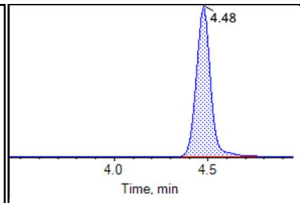


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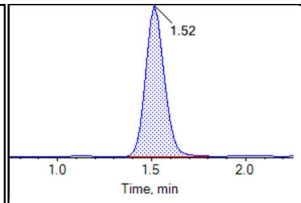


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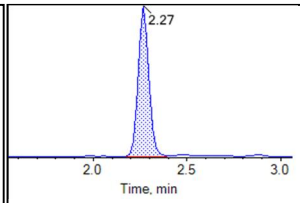


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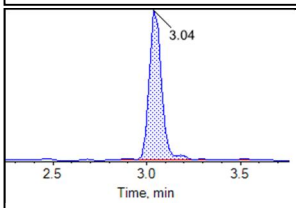


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | J8324-FS(0) | **Injection Vial** | 27 |
| **Sample ID** | VC-AQ-EB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:22:35 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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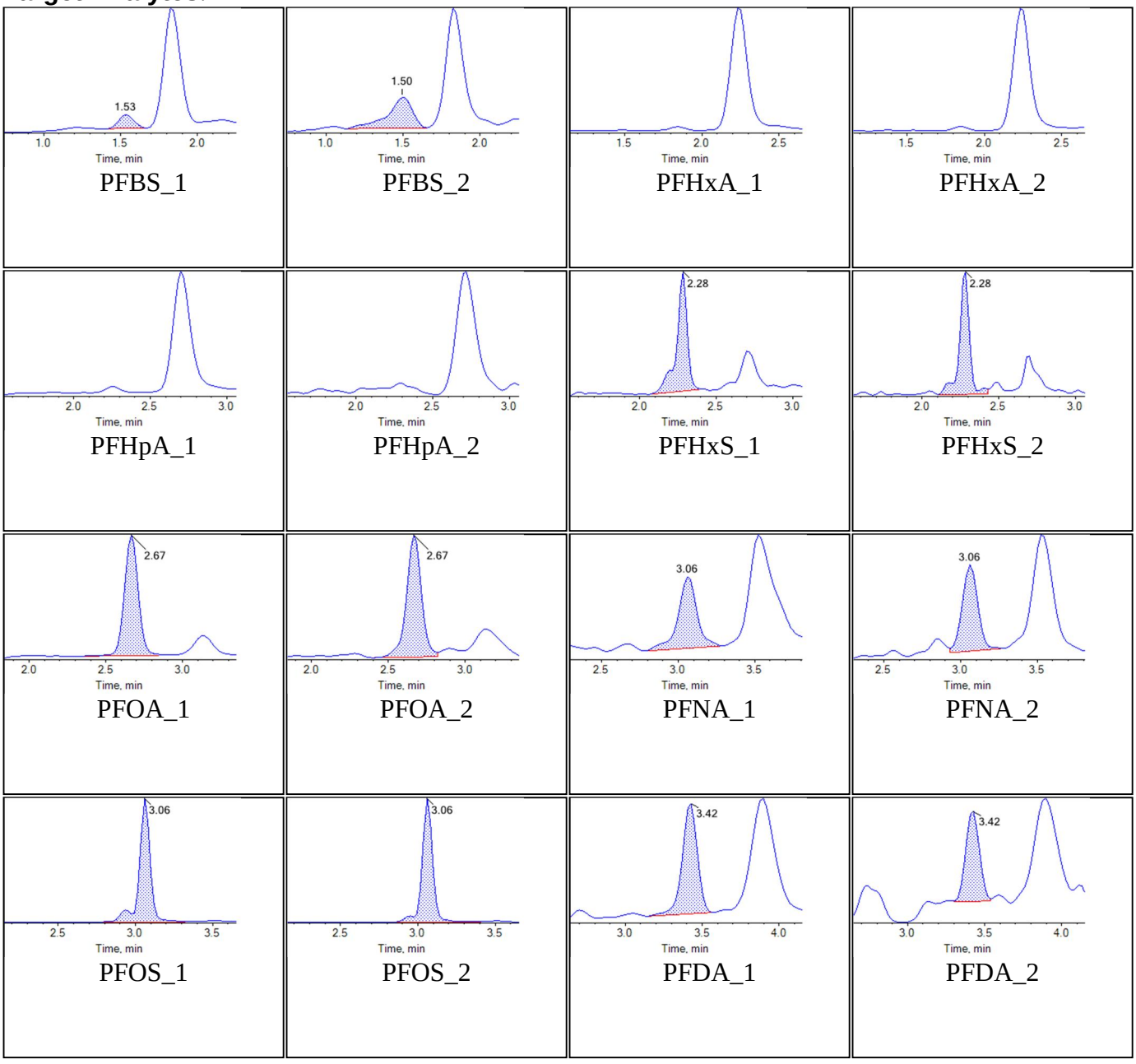

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Chromatogram Report

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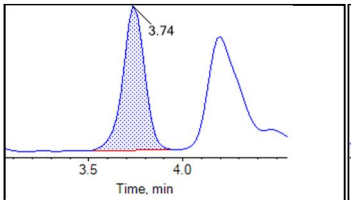

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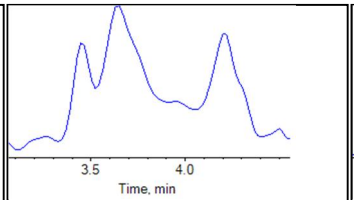

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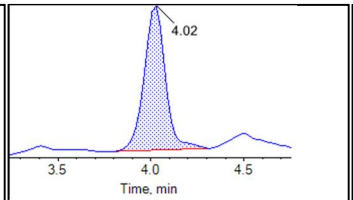

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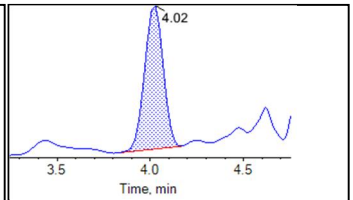

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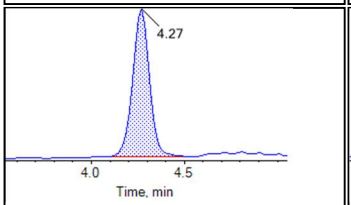

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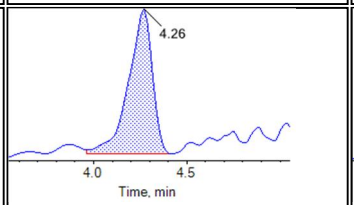

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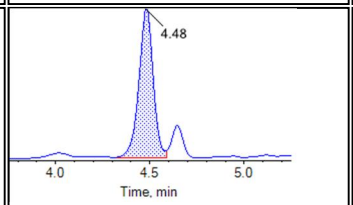

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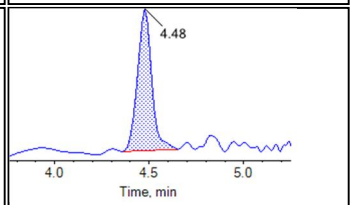

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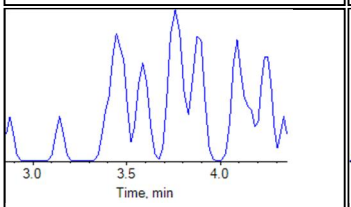

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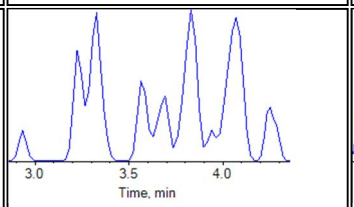

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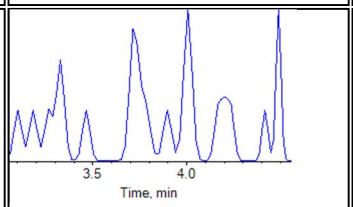

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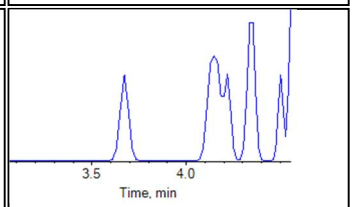

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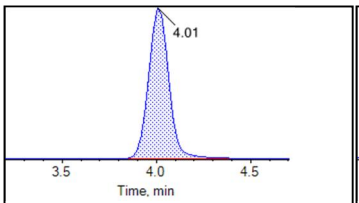

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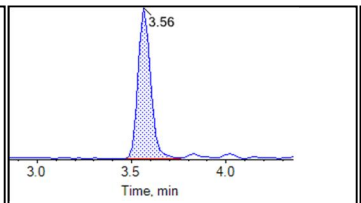

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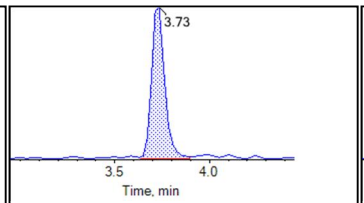

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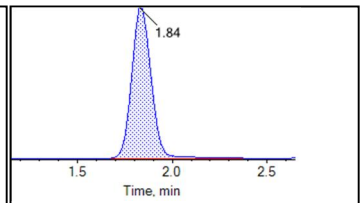

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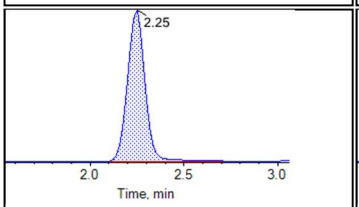

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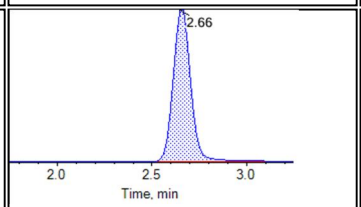

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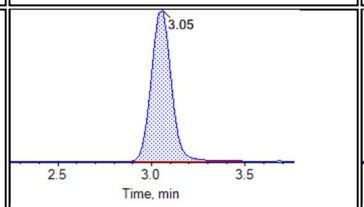

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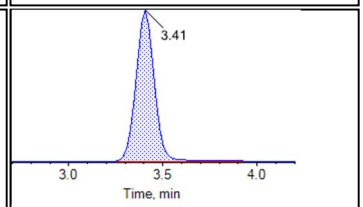

13C6-PFDA

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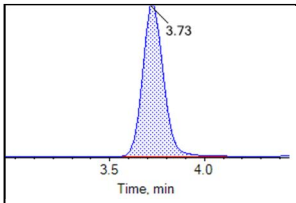


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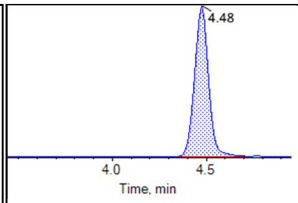


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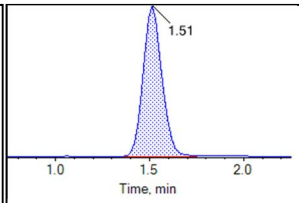


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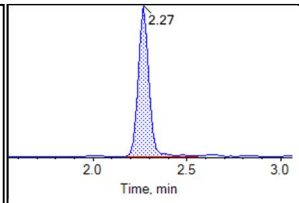


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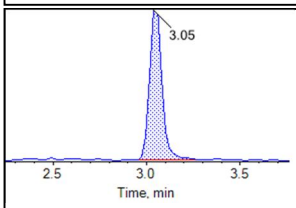


13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:44:53 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8323-FS(0) | **Injection Vial** | 28 |
| **Sample ID** | VC-AQ-FB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:33:27 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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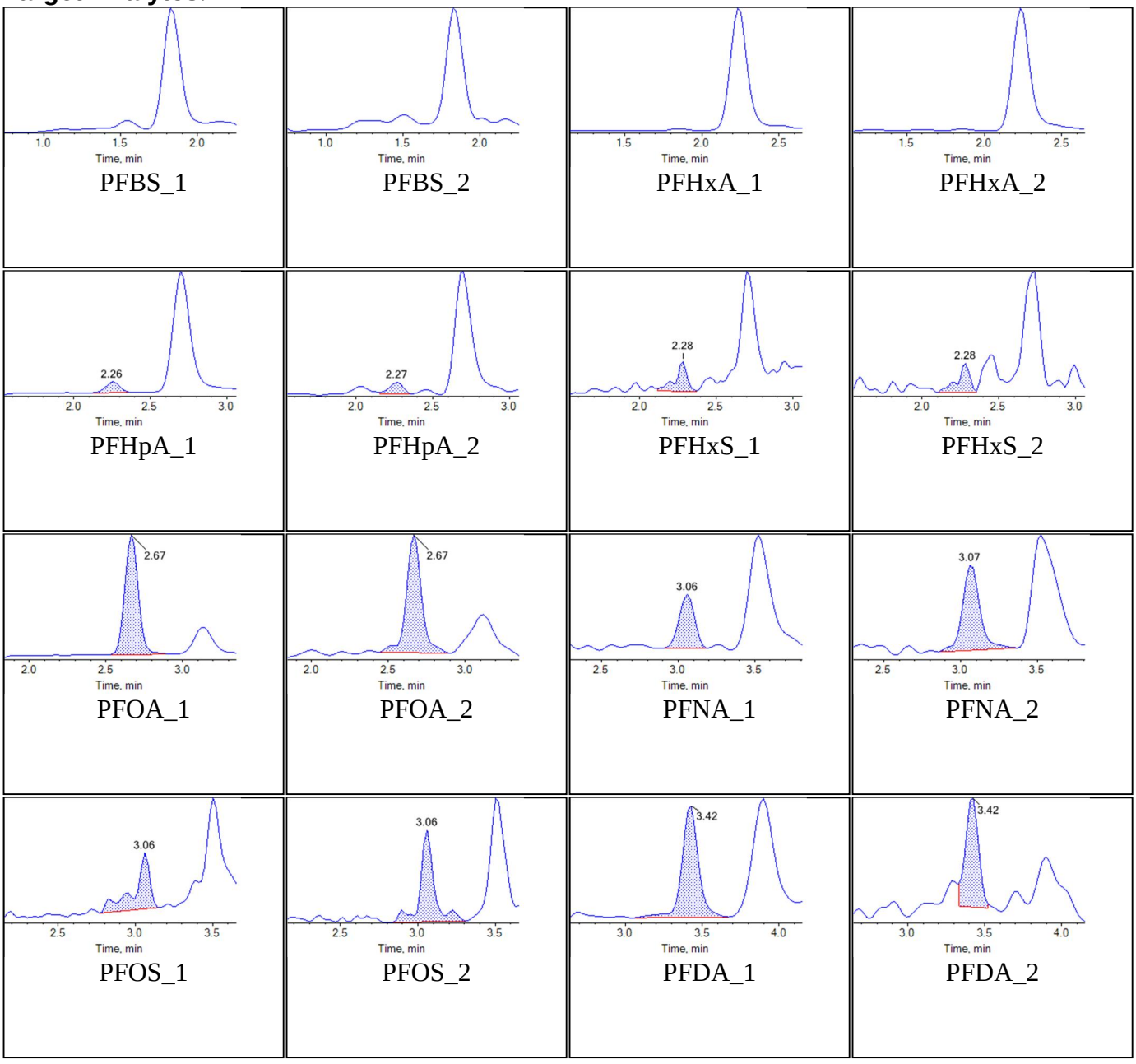

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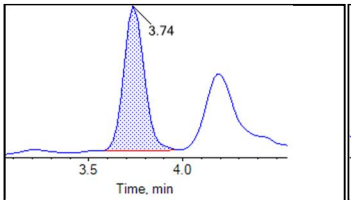

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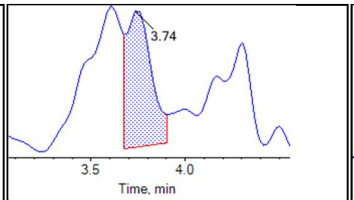

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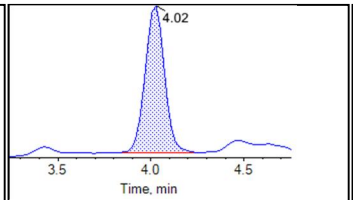

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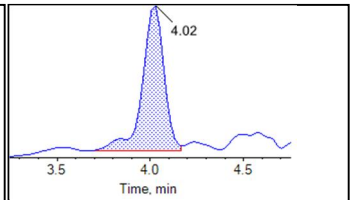

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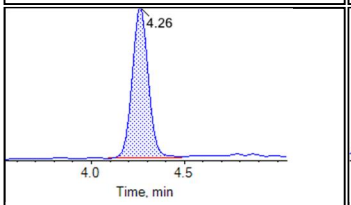

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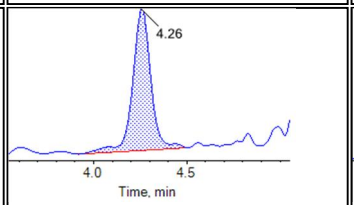

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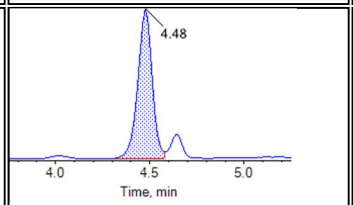

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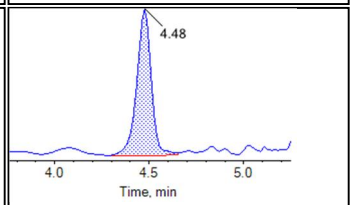

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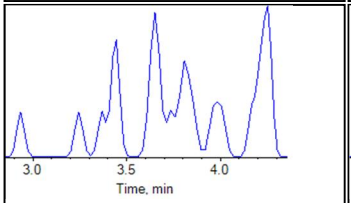

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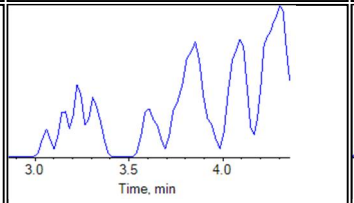

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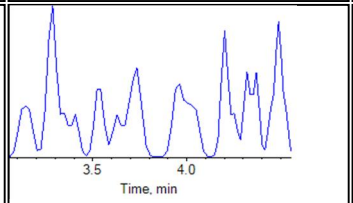

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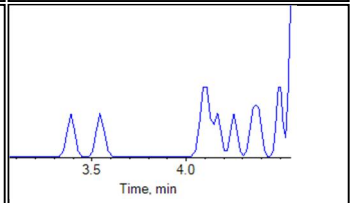

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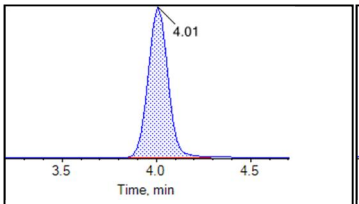

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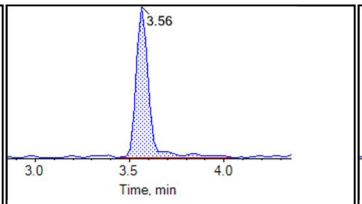

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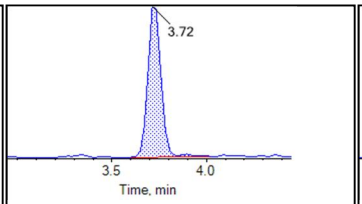

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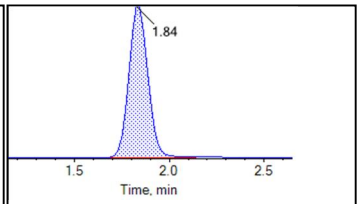

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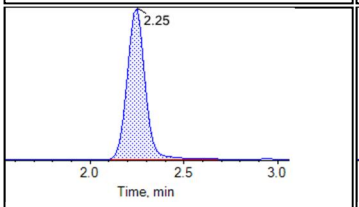

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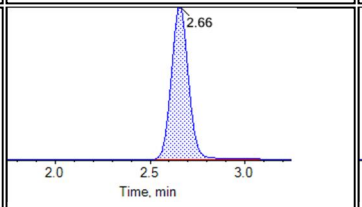

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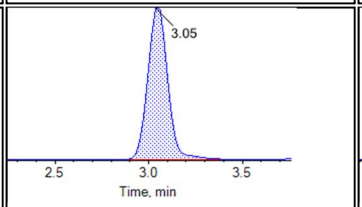

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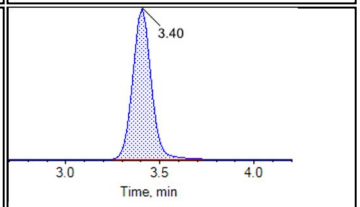

13C6-PFDA

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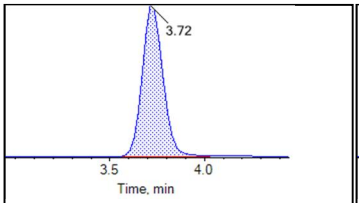


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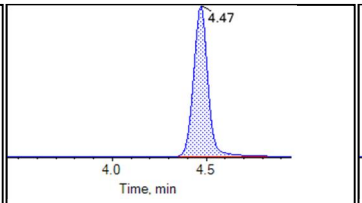


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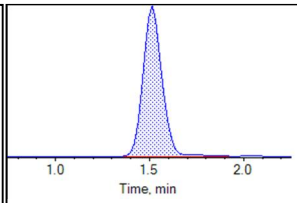


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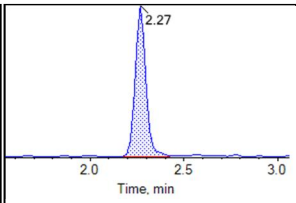


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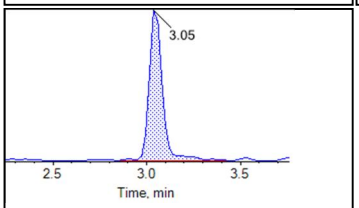


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS(0) | **Injection Vial** | 29 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:44:19 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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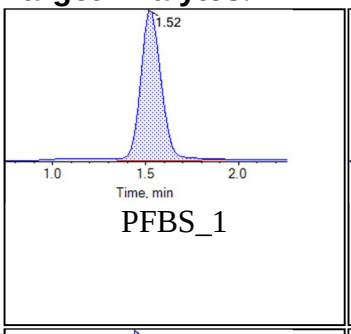
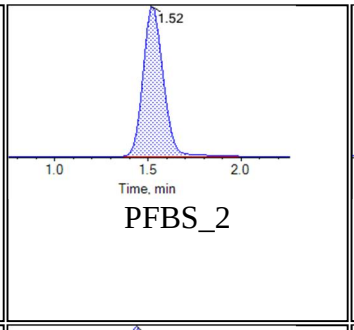


PFBS_1



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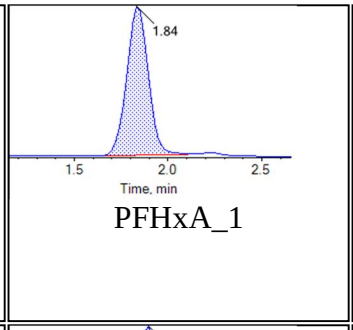

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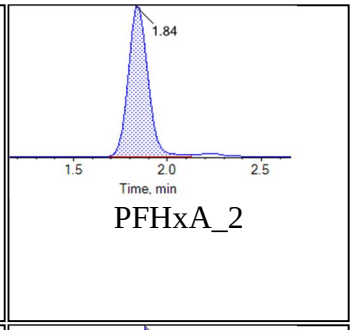

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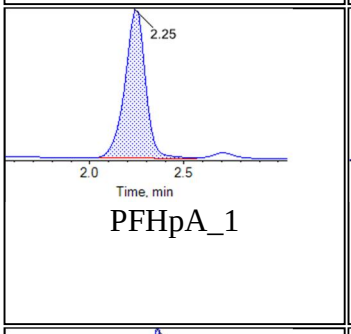

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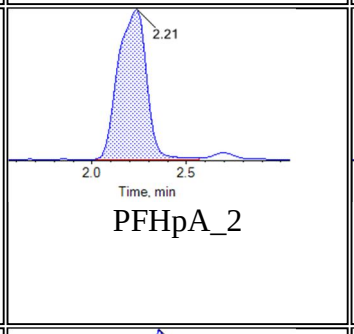

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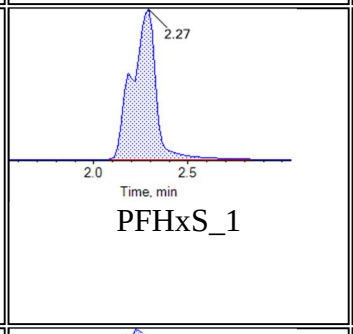

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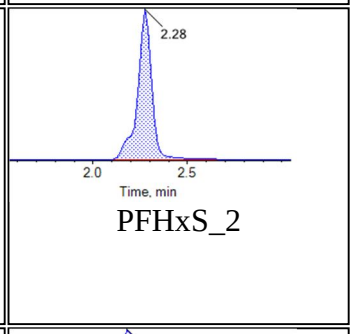

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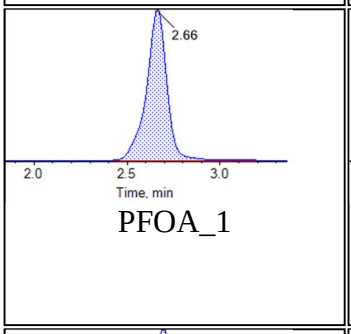

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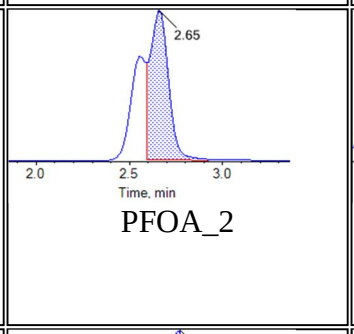

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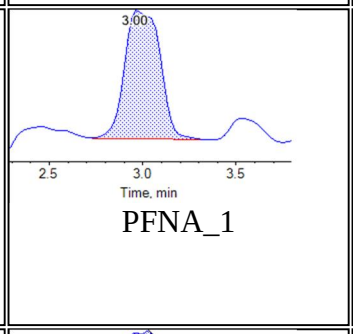

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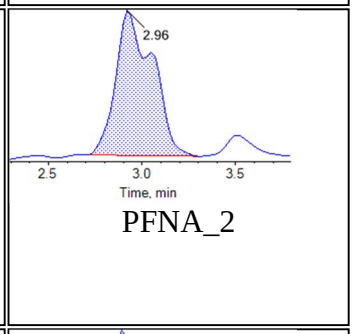

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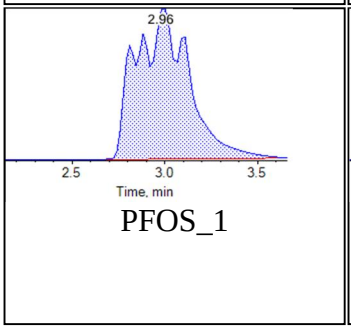

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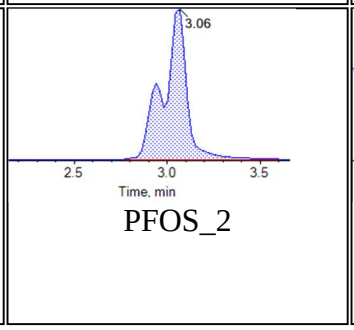

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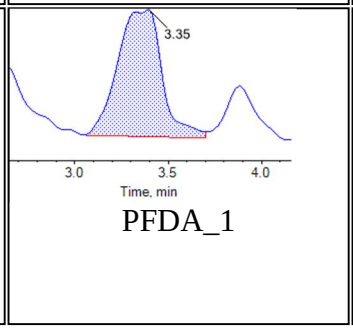

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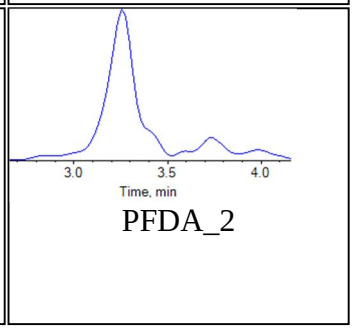

PFDA_2

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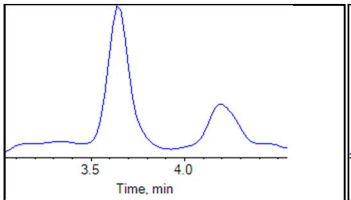

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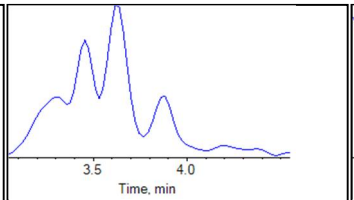

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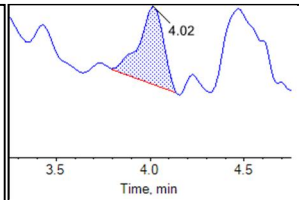

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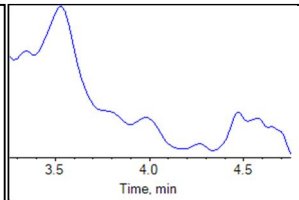

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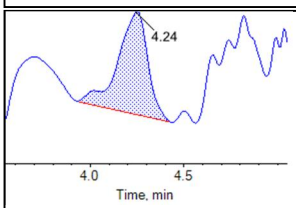

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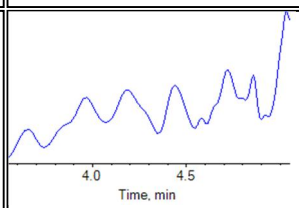

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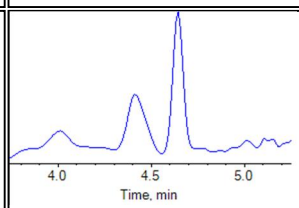

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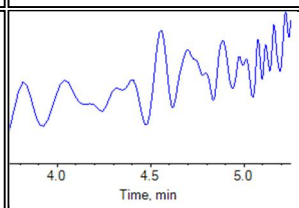

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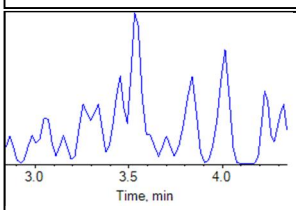

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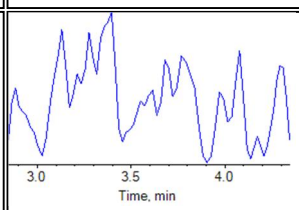

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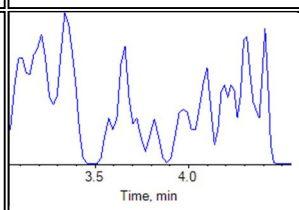

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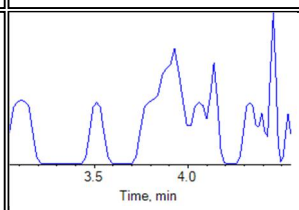

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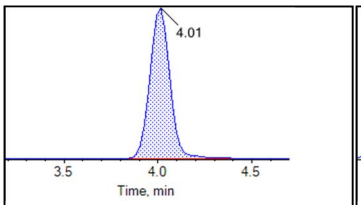
## Internal Standards:



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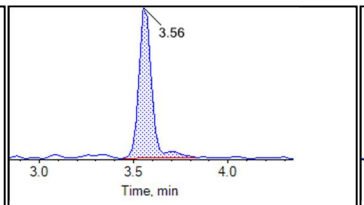
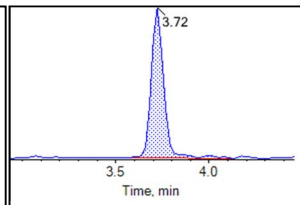


d3-MeFOSAA



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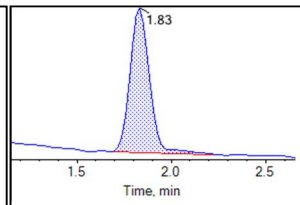
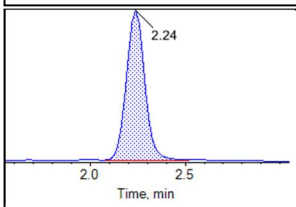


13C5-PFHxA



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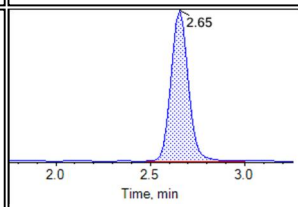
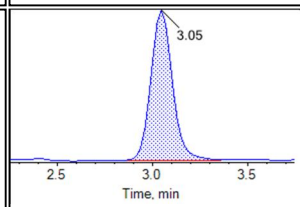


13C8-PFOA



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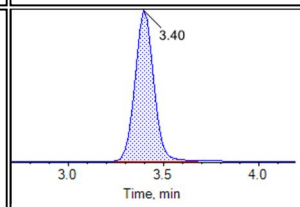

13C6-PFDA

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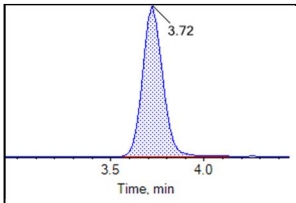
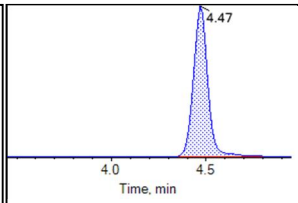
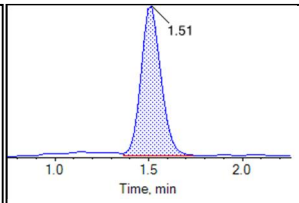


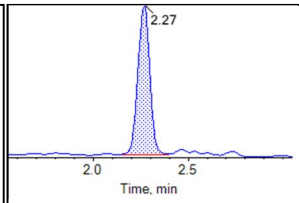

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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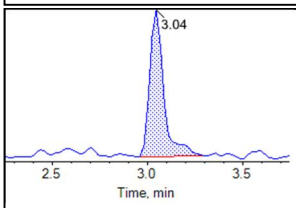


13C8-PFOS

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Chromatogram Report

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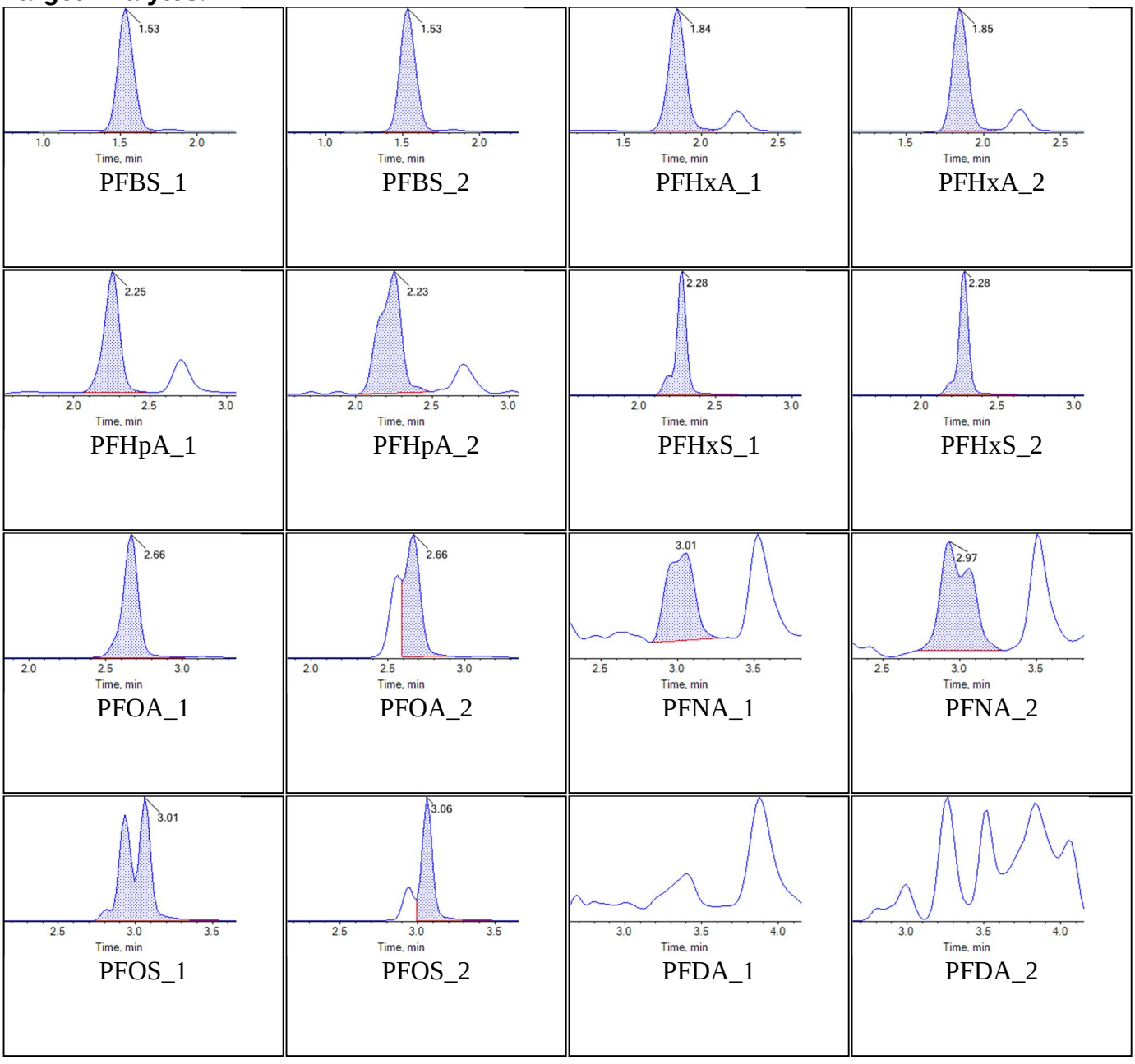
Printed: 22/10/2018 1:45:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(3) | **Injection Vial** | 30 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:55:11 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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Chromatogram Report

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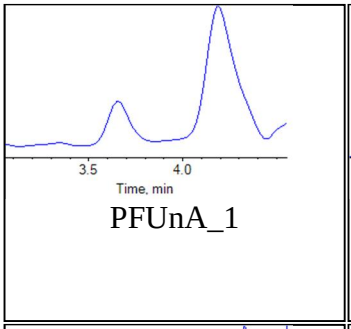

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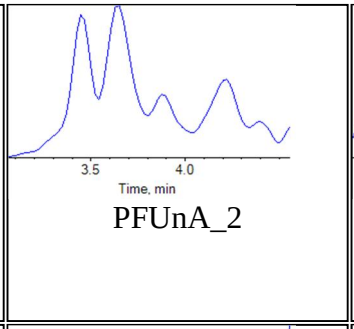

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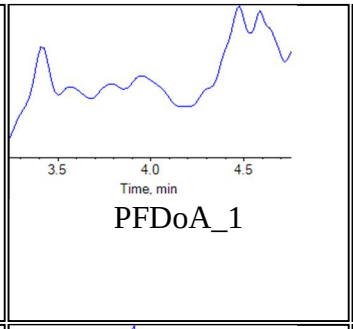

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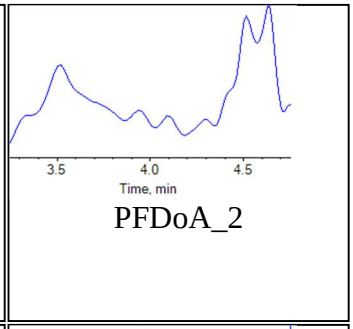
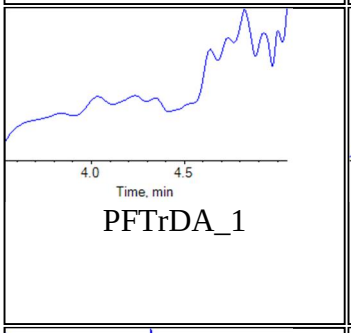


PFDoA_2



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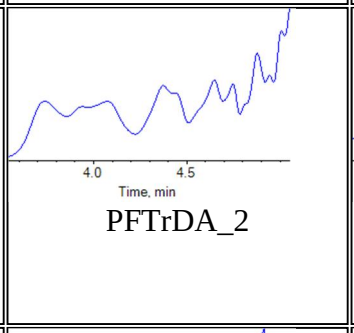

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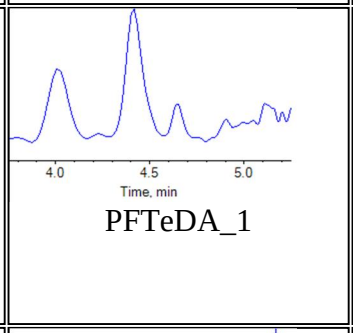

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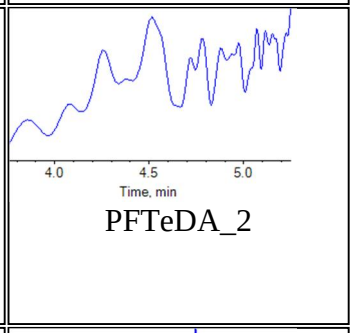

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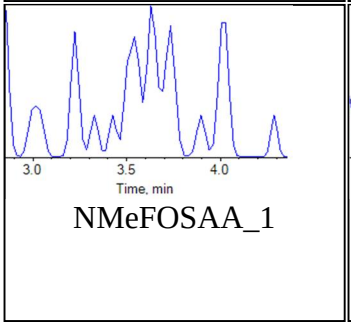
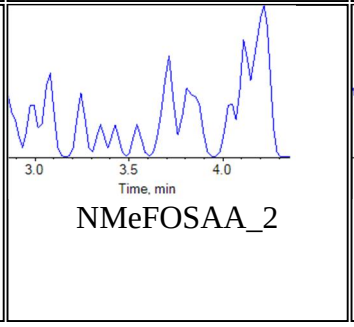


NMeFOSAA_1



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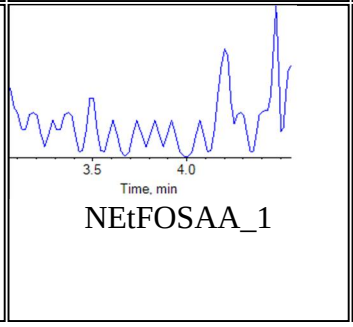

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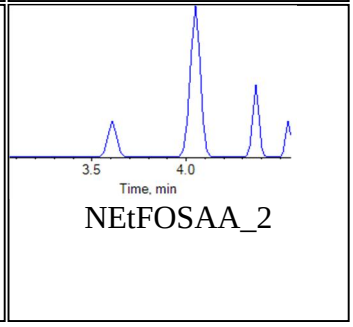

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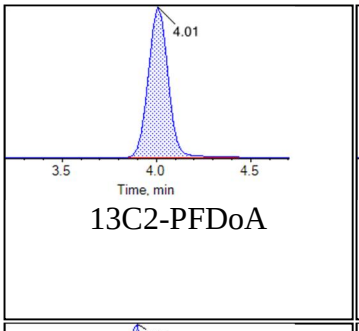
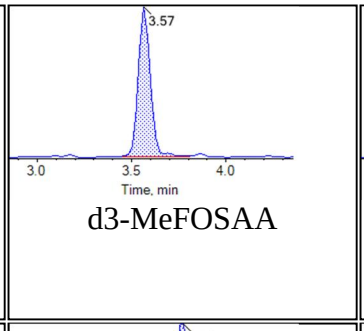
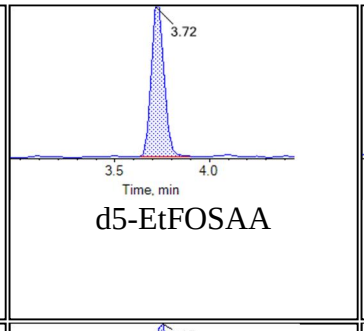


13C2-PFDoA



d3-MeFOSAA



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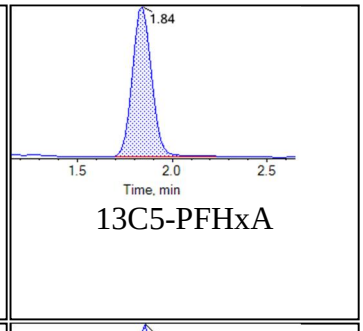

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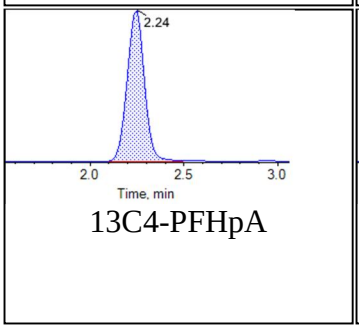

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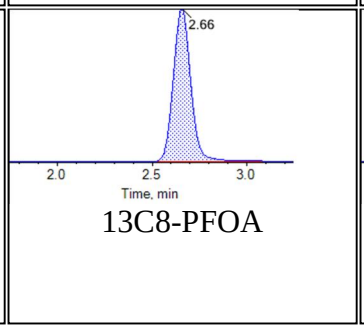
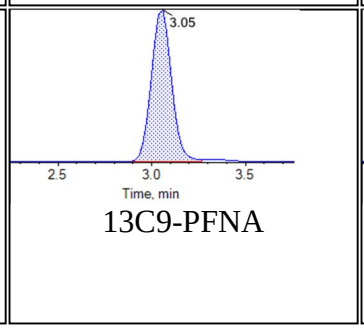
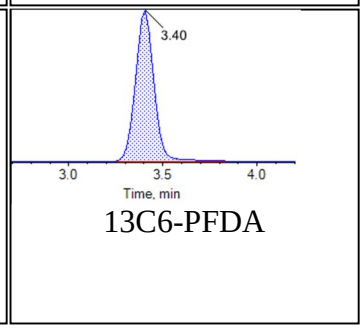


13C8-PFOA



13C9-PFNA



13C6-PFDA

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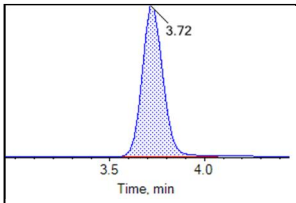
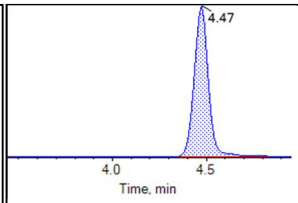



13C7-PFUnA

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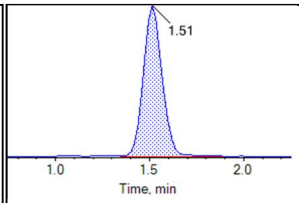
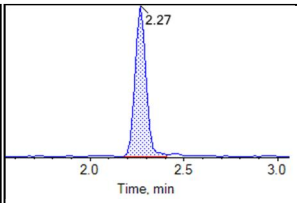
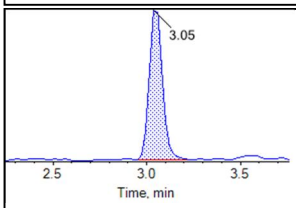



13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:45:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(5) | **Injection Vial** | 31 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:06:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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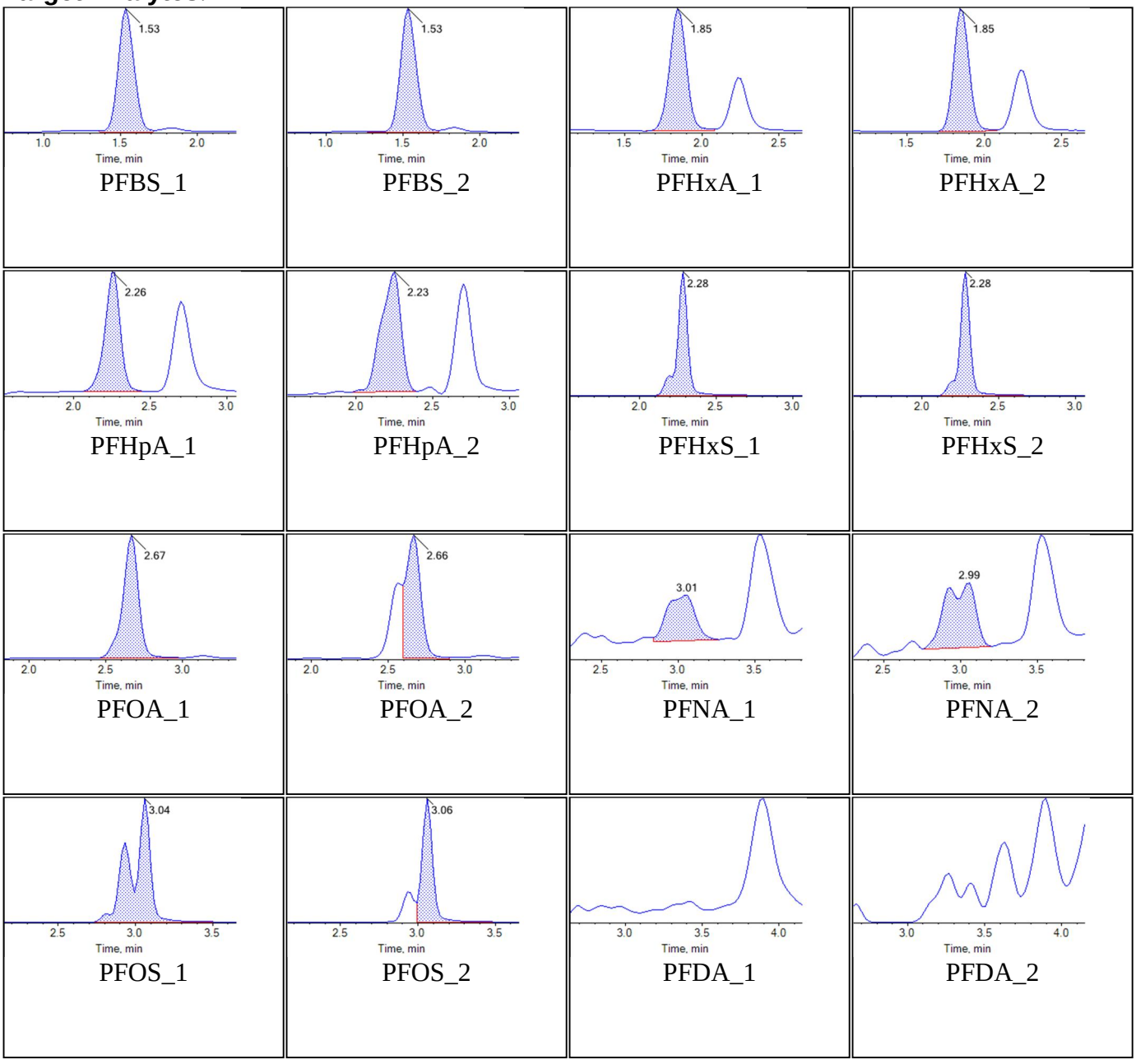

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Chromatogram Report

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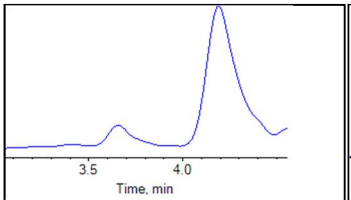

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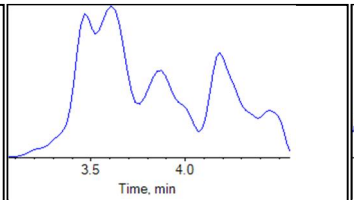

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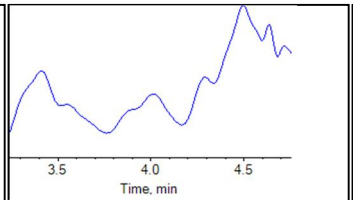

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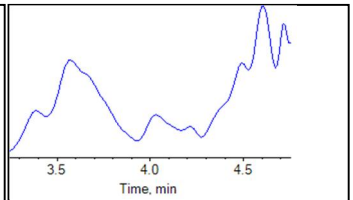
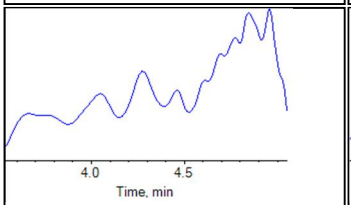
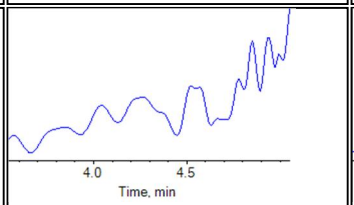


PFDoA_2



PFTrDA_1



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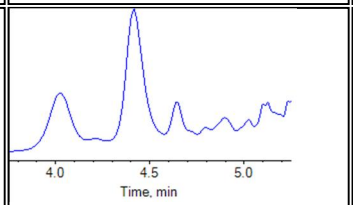

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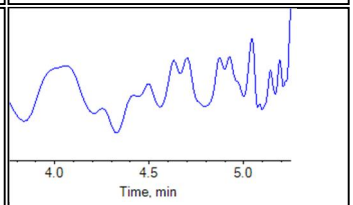

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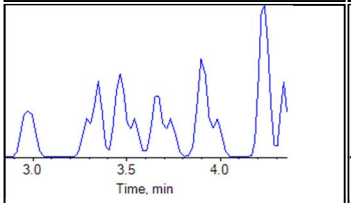

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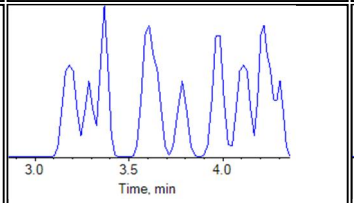

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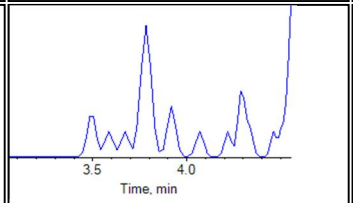

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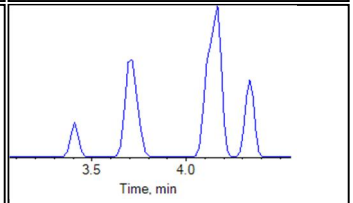

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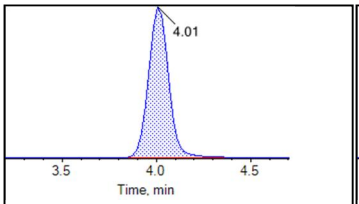

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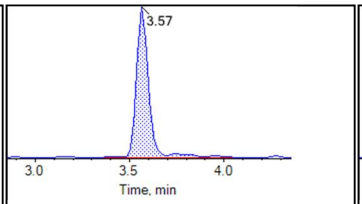

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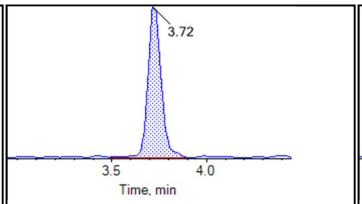
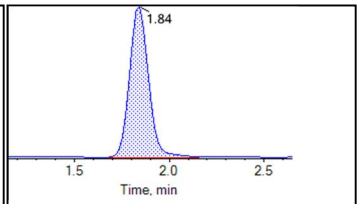


d5-EtFOSAA



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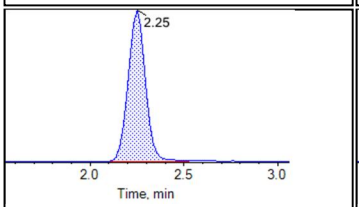
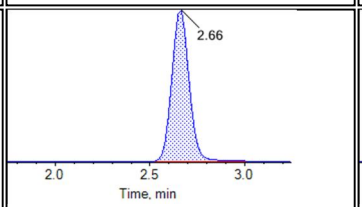
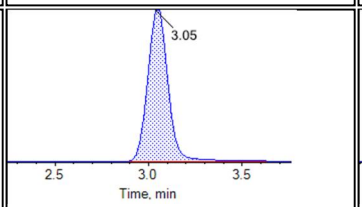


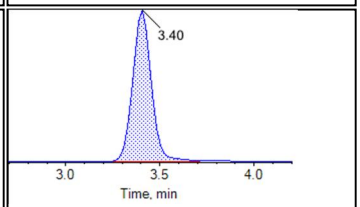
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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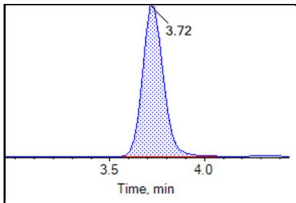
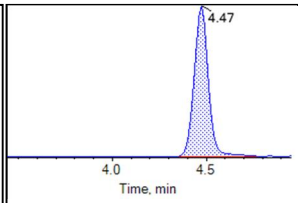
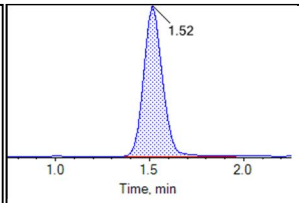


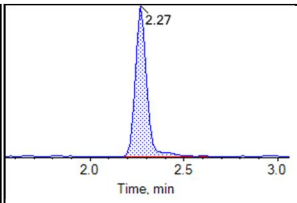

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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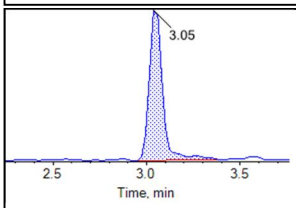


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:45:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(7) | **Injection Vial** | 32 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:16:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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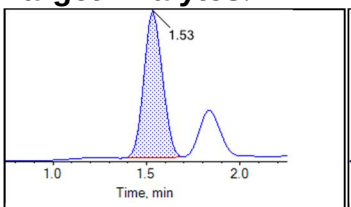

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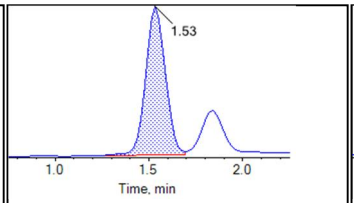
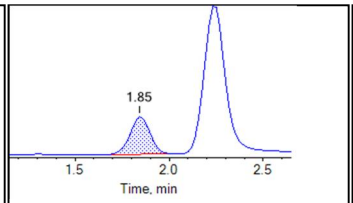
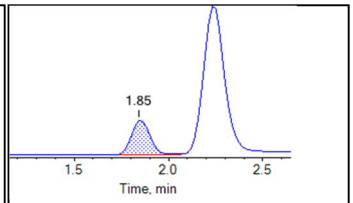


PFBS_2



PFHxA_1



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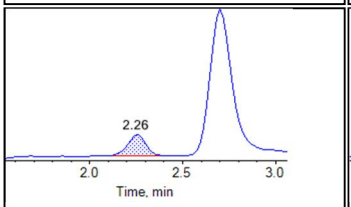

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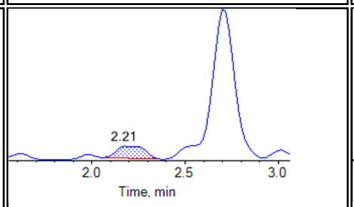

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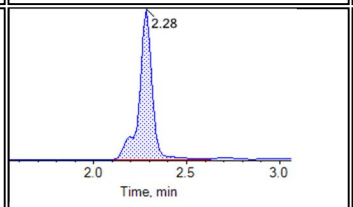
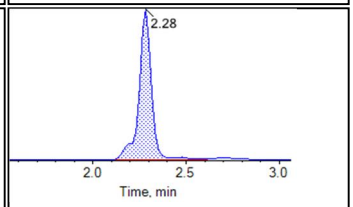


PFHxS_1



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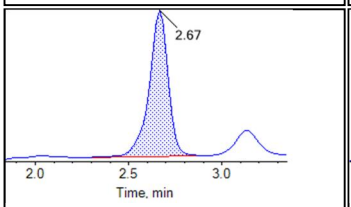

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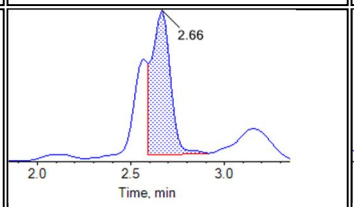

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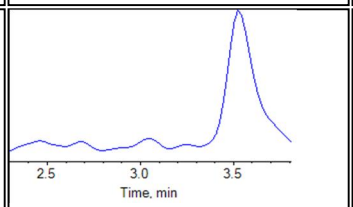

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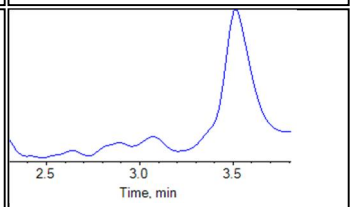

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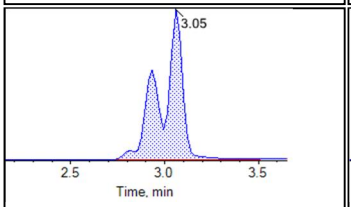

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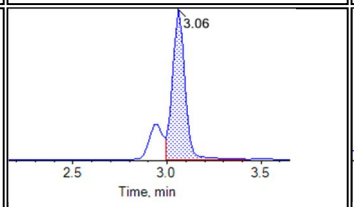

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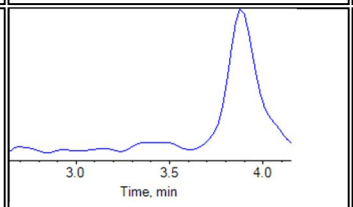

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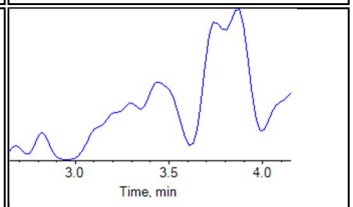

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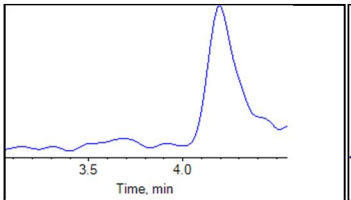

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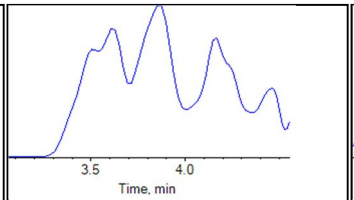

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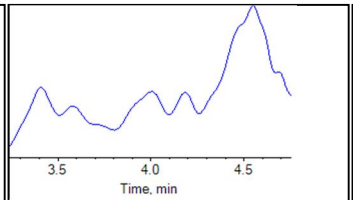

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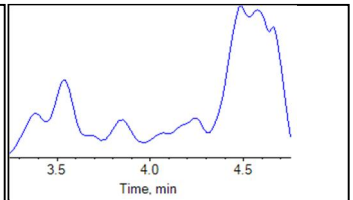

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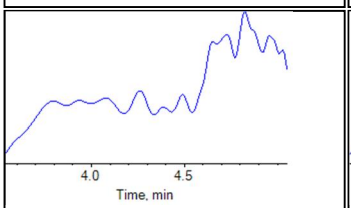

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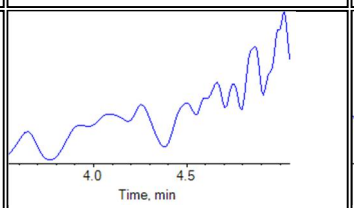

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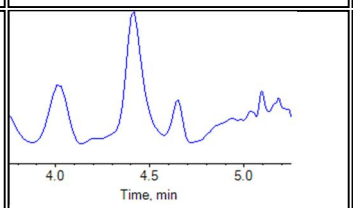

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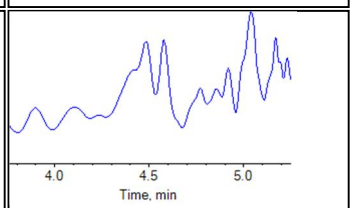

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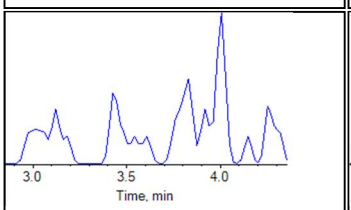

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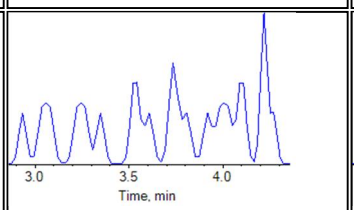

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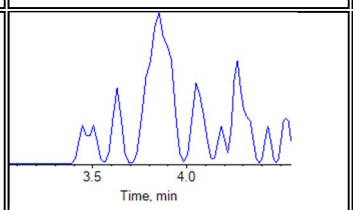

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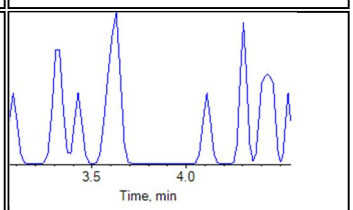

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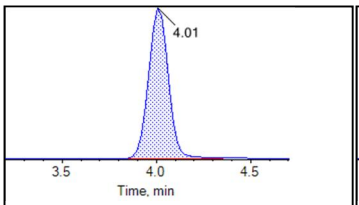

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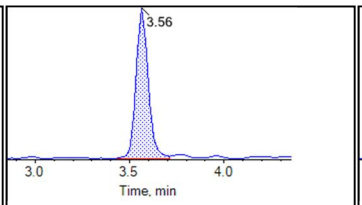

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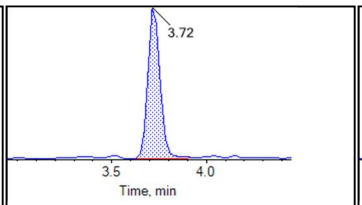

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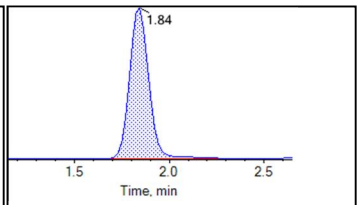

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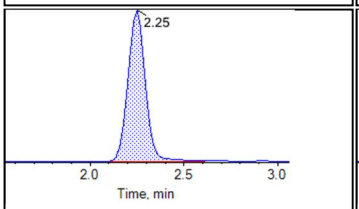

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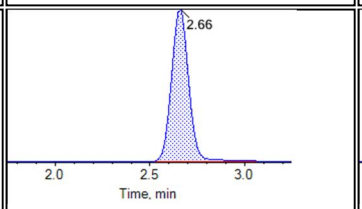

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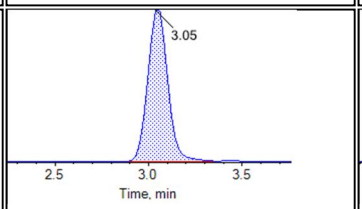

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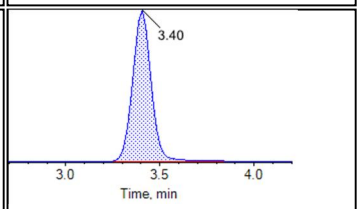

13C6-PFDA

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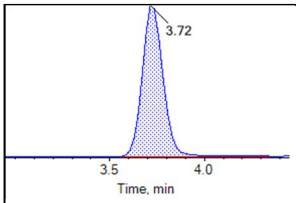


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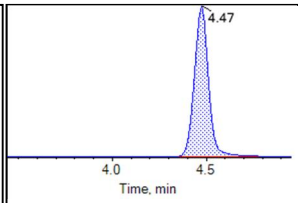


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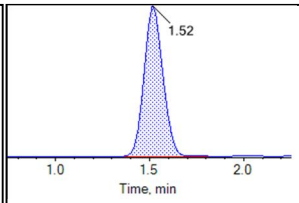


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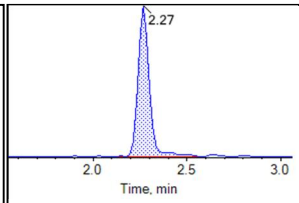


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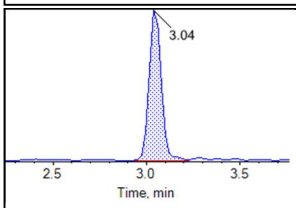


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(9) | **Injection Vial** | 33 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:27:48 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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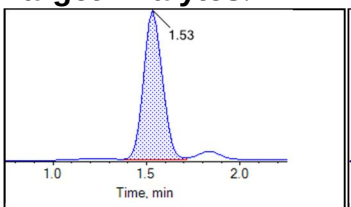

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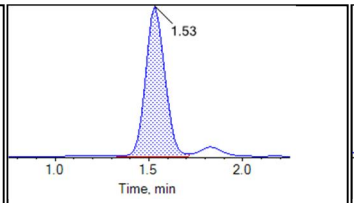

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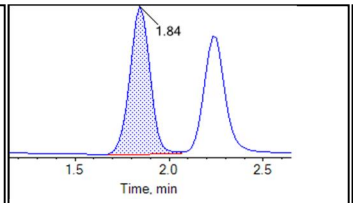

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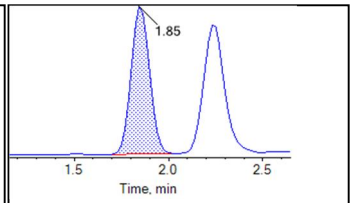

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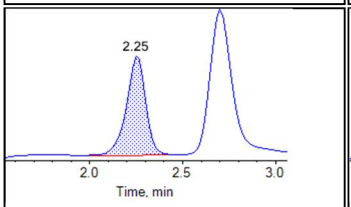

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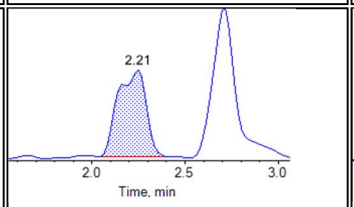

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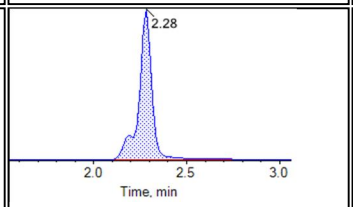

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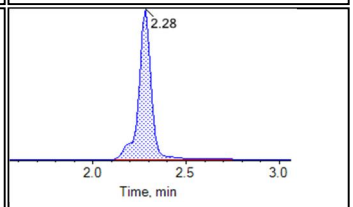

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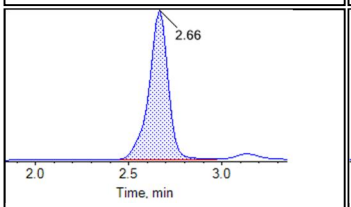

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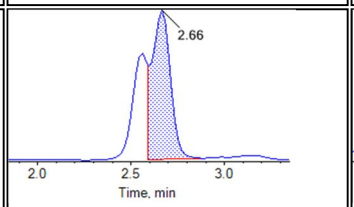

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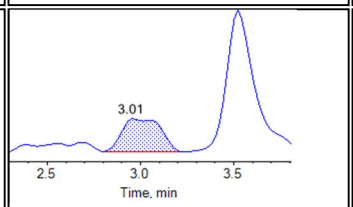

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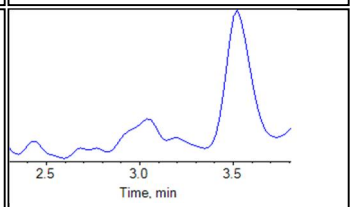

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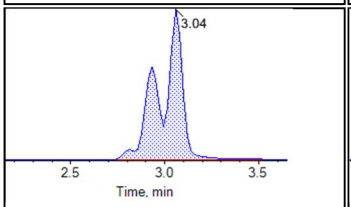

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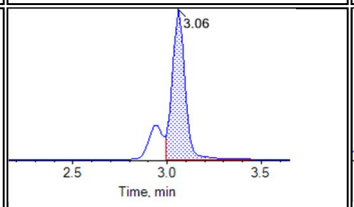

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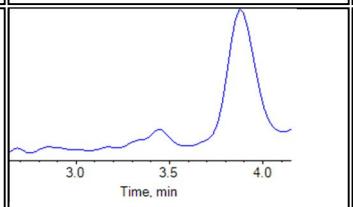

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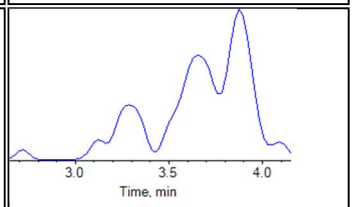

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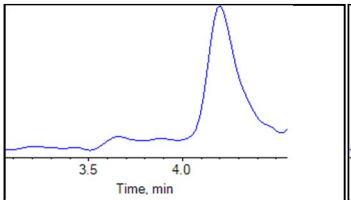

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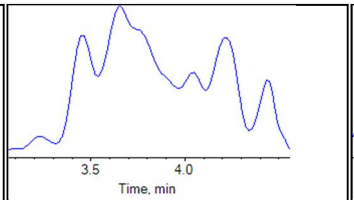

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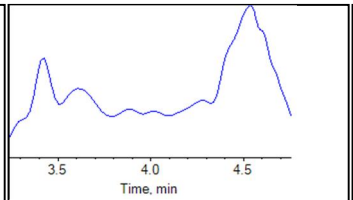

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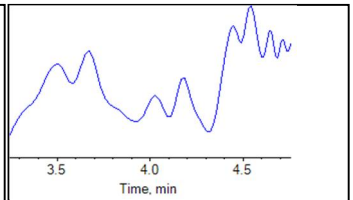

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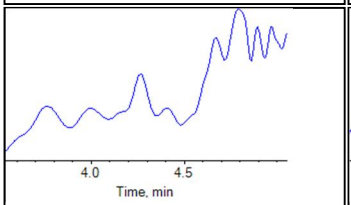

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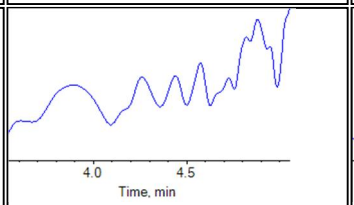

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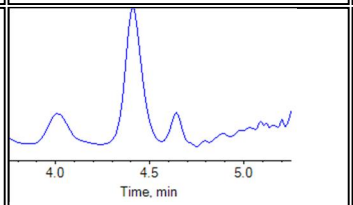

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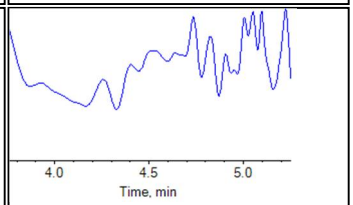

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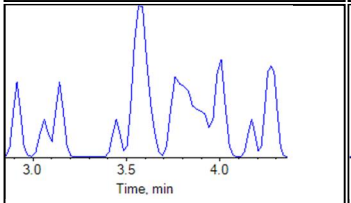

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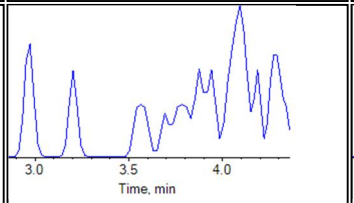

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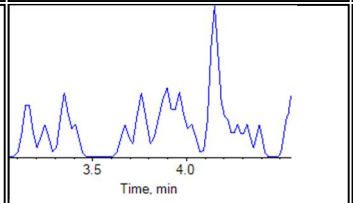

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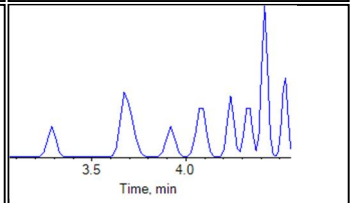

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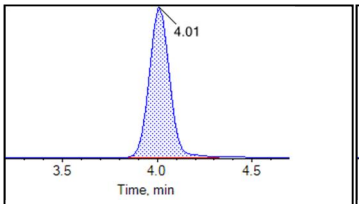

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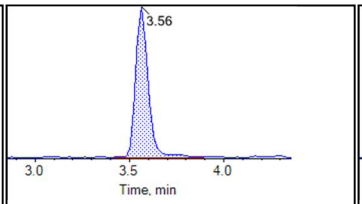
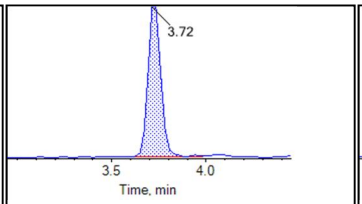


d3-MeFOSAA



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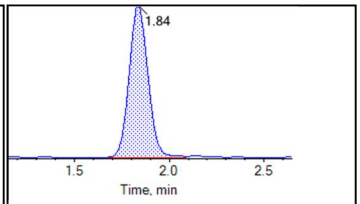

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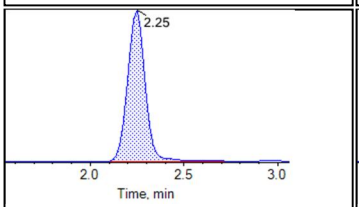

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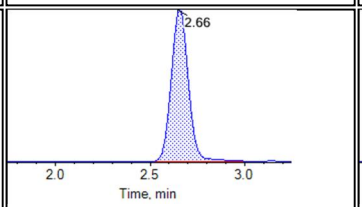

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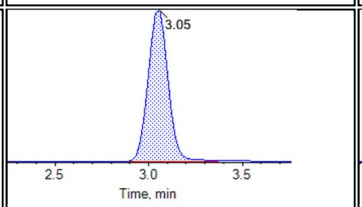

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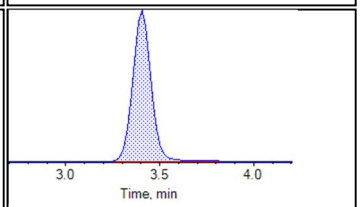

13C6-PFDA

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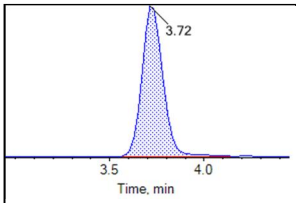
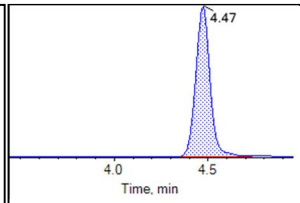



13C7-PFUnA

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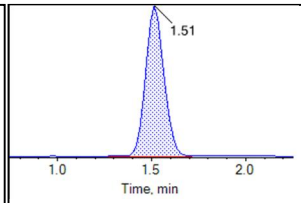


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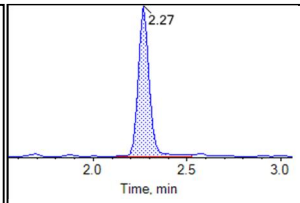


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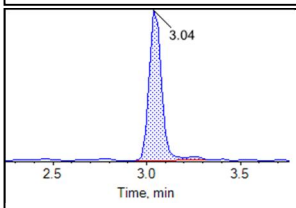


13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:45:23 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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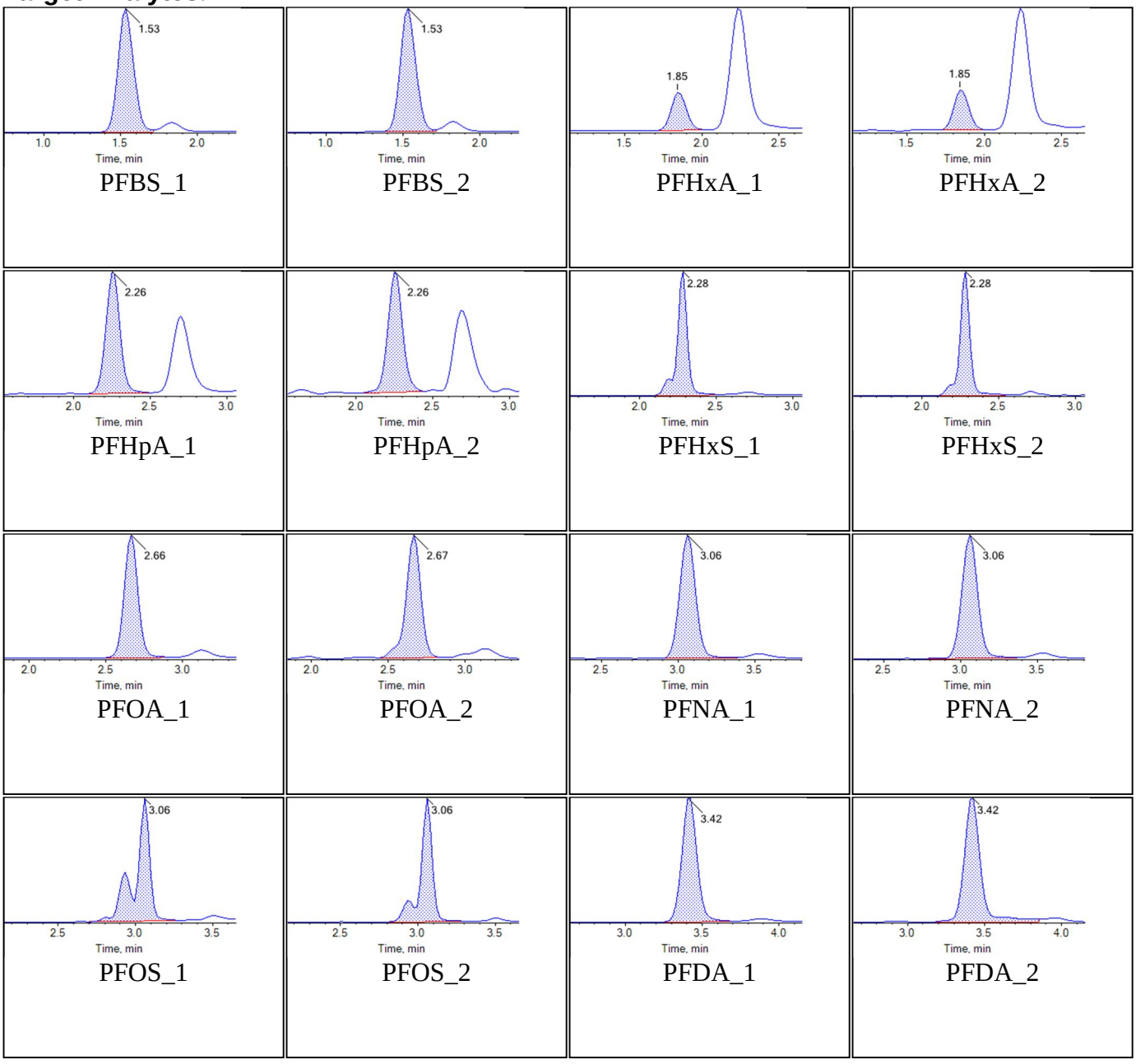

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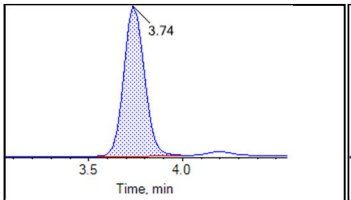

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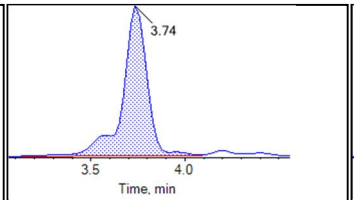

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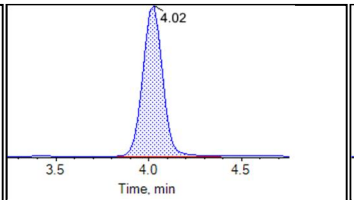

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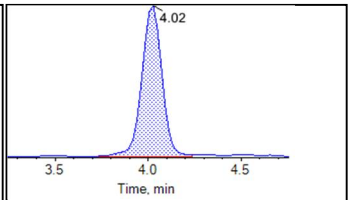

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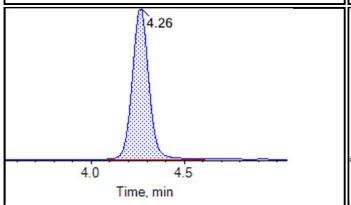

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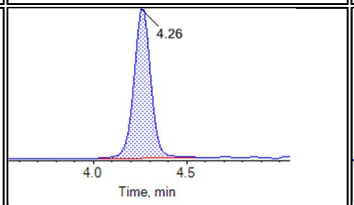

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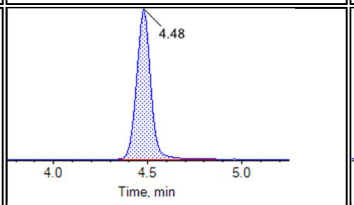

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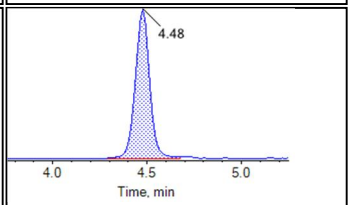

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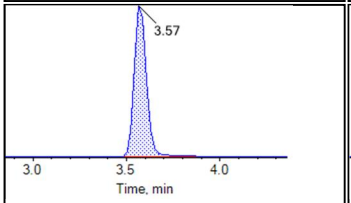

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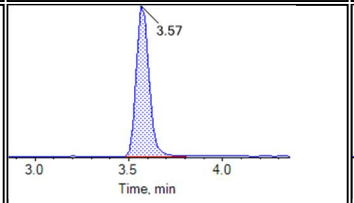

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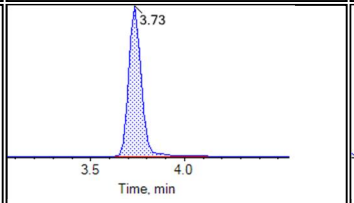

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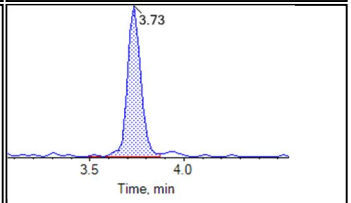

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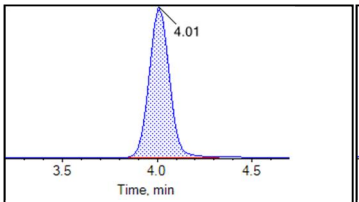

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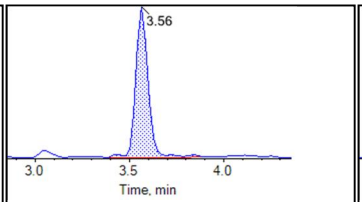

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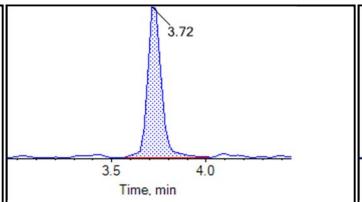
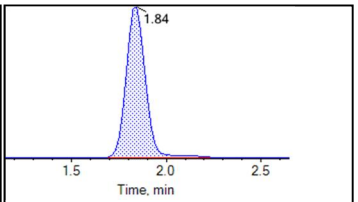
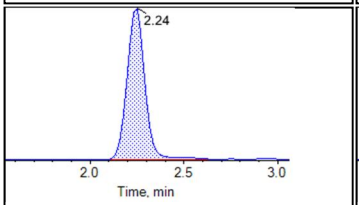


d5-EtFOSAA



13C5-PFHxA



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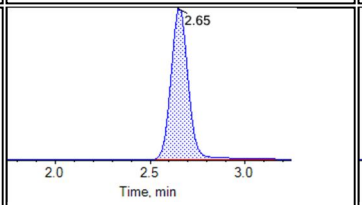

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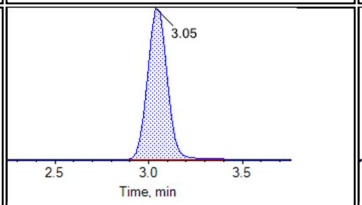

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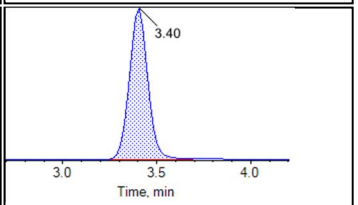

13C6-PFDA

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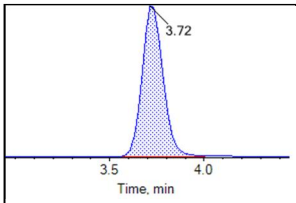


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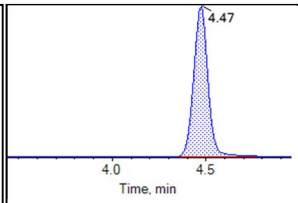


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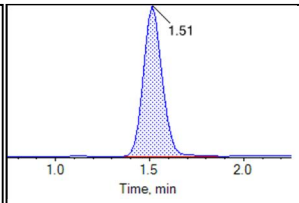


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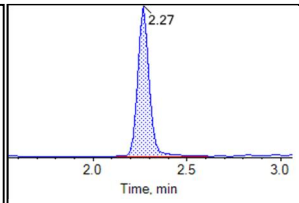


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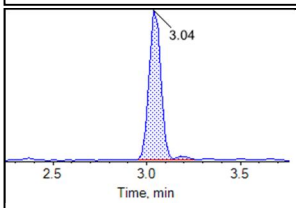


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8309-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-SO-EB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:00:23 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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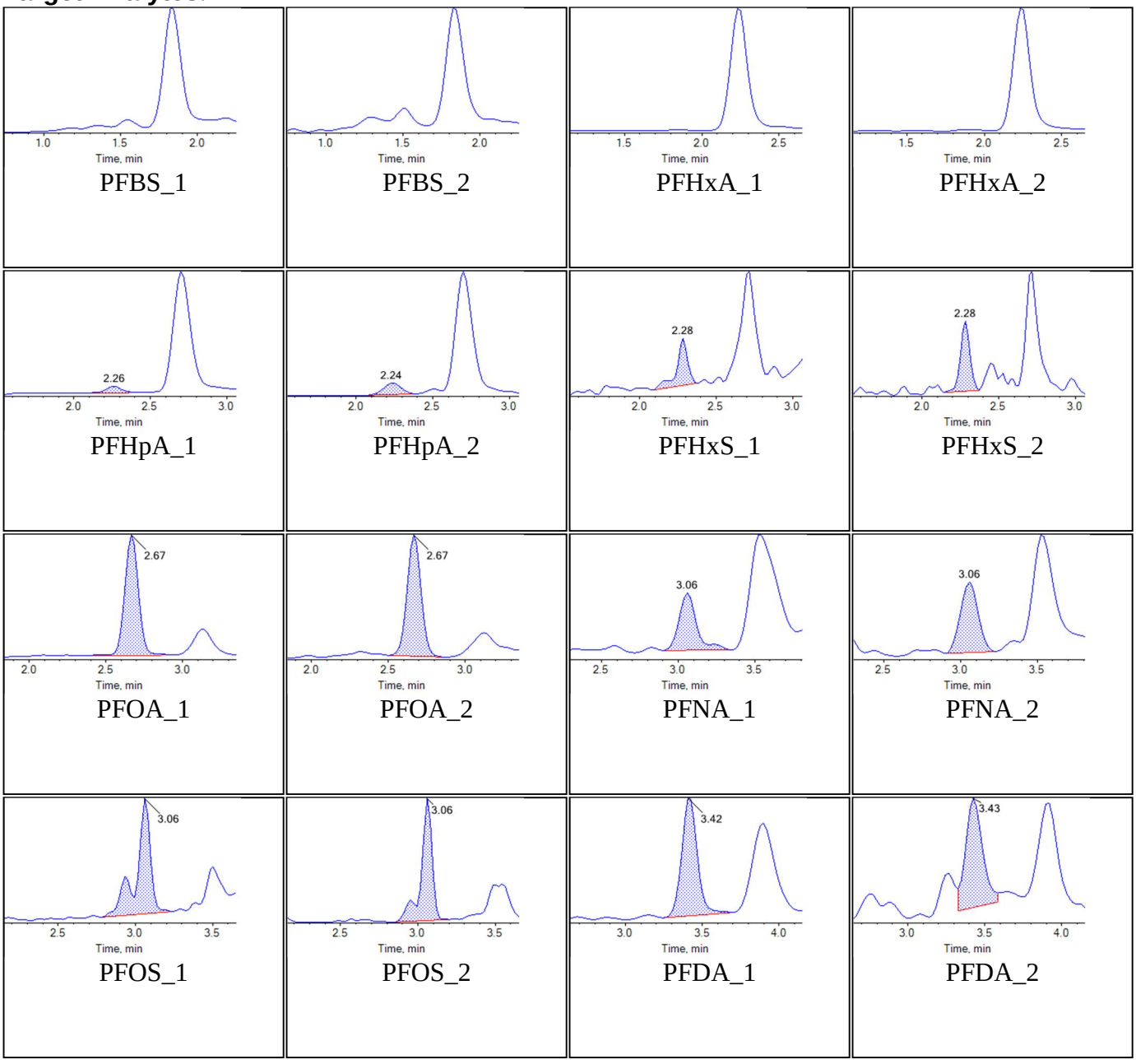

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Chromatogram Report

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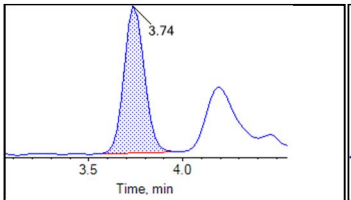
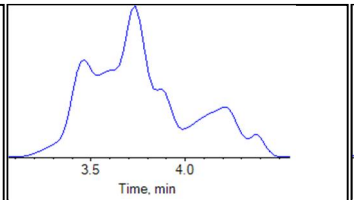


PFUnA_1



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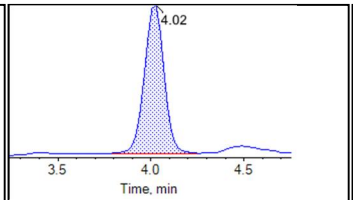

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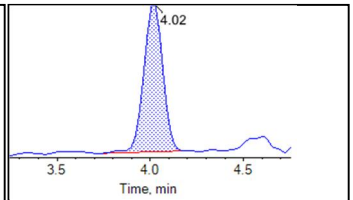

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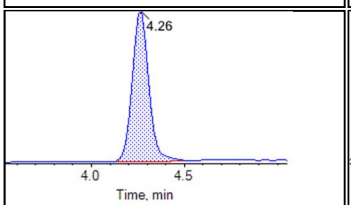

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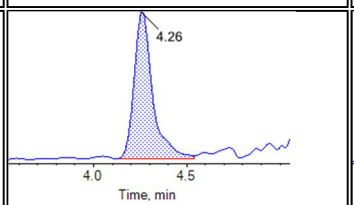

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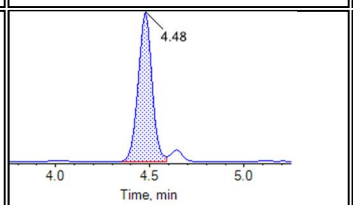

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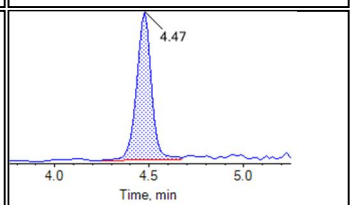

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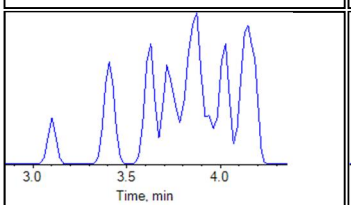
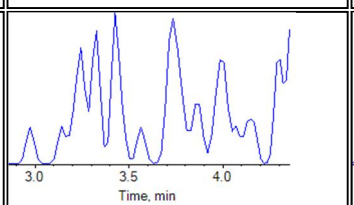


NMeFOSAA_1



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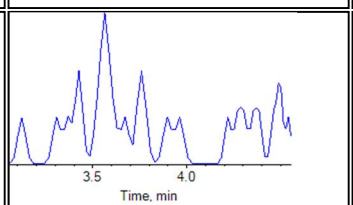

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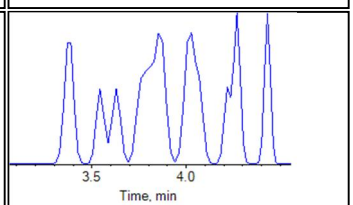

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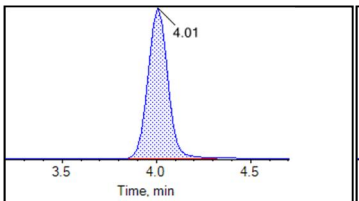

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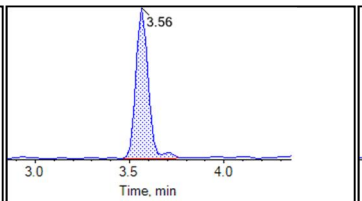

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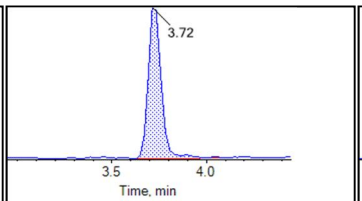

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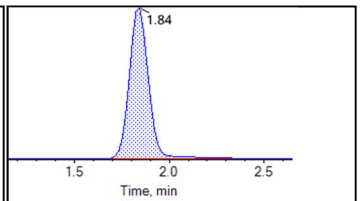

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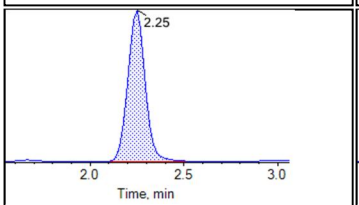

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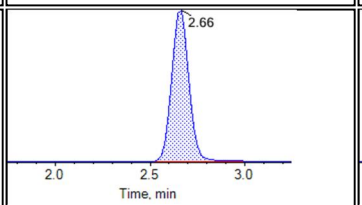
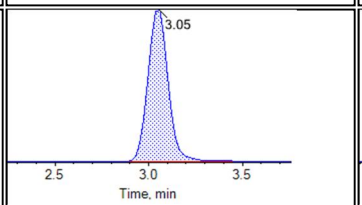
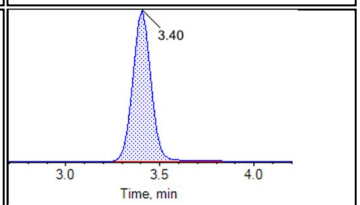


13C8-PFOA



13C9-PFNA



13C6-PFDA

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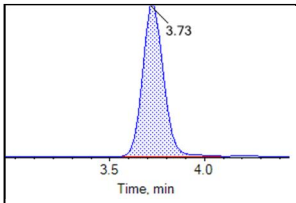
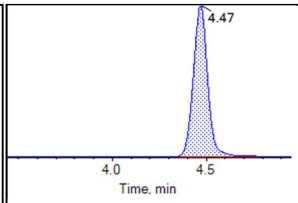



13C7-PFUnA

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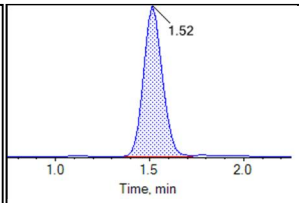
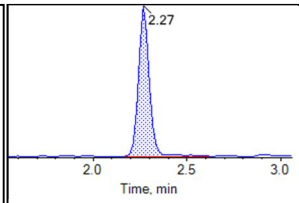



13C3-PFBS

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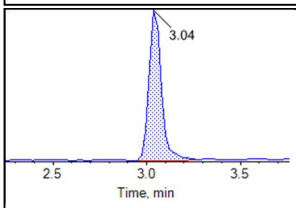


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS(0) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:11:14 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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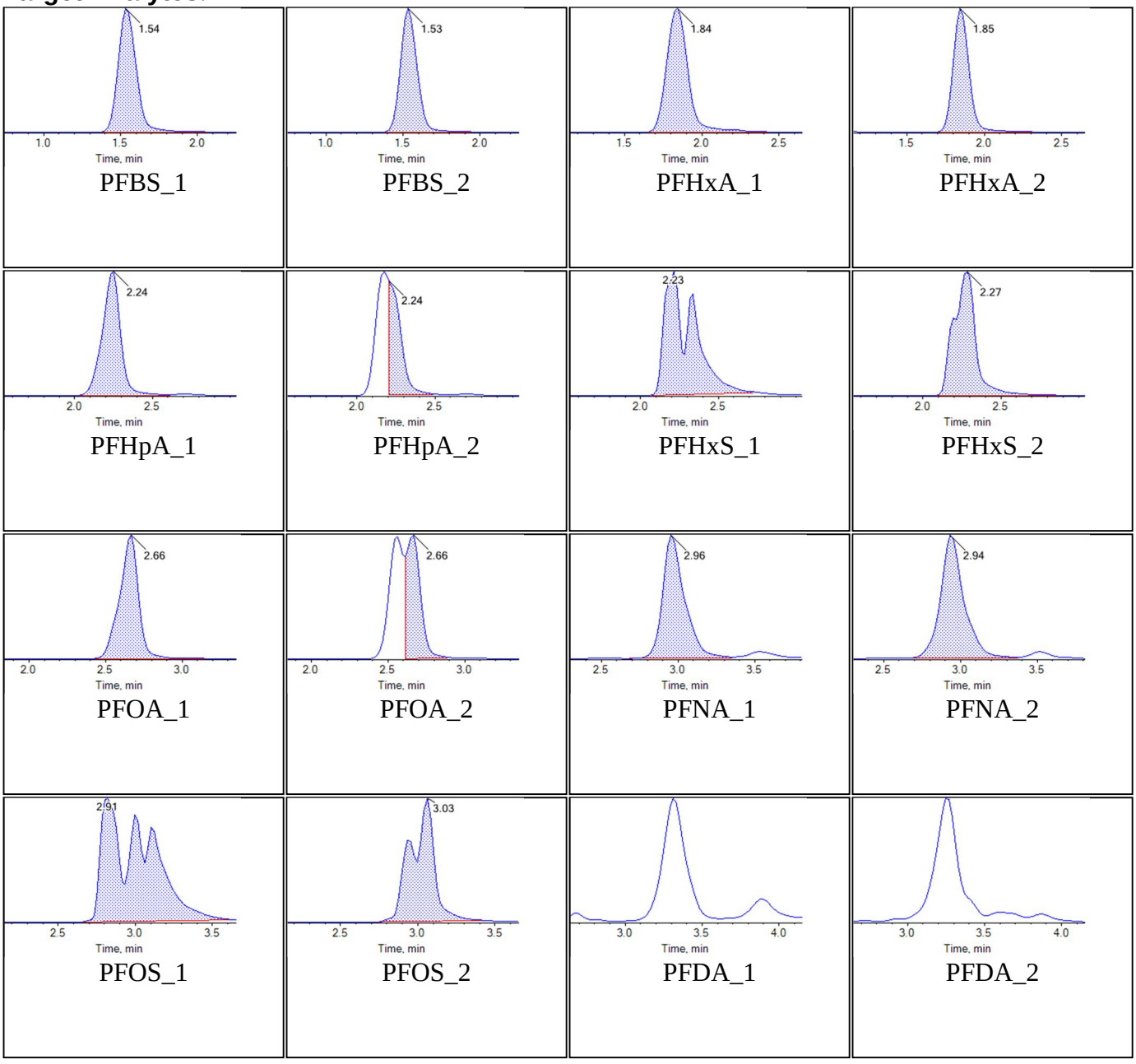

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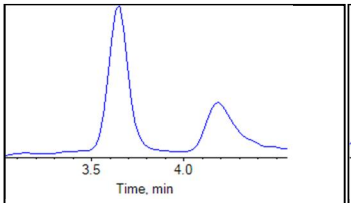

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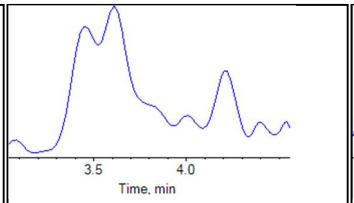

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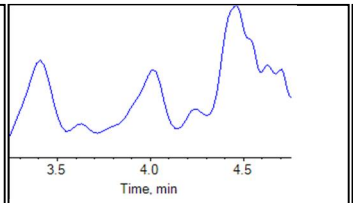

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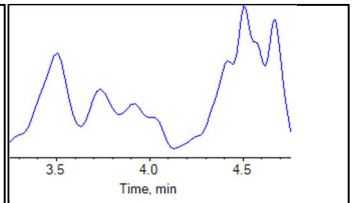

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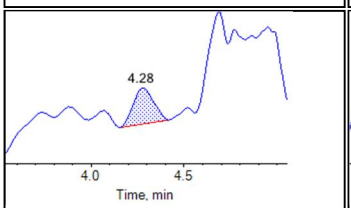

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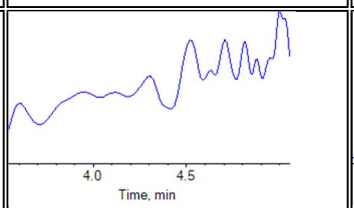

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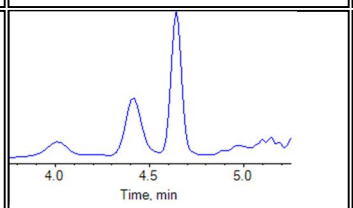

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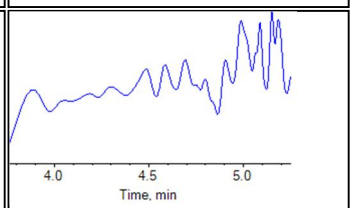

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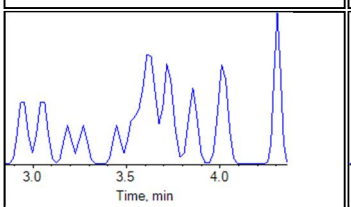

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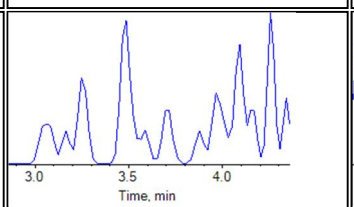

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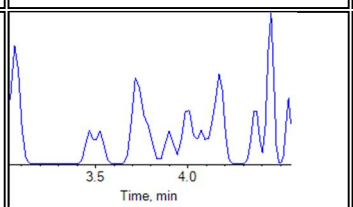

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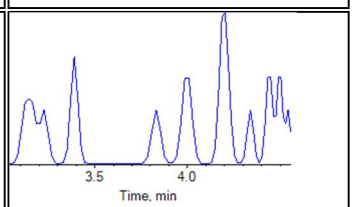

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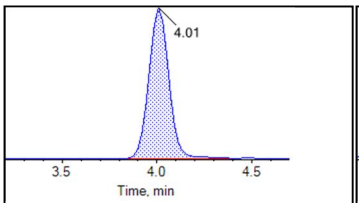

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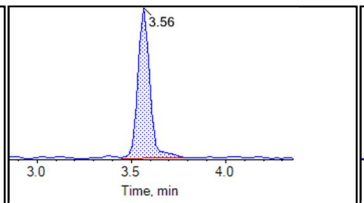
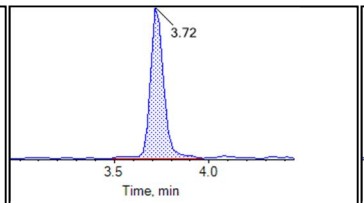
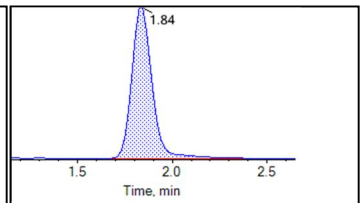


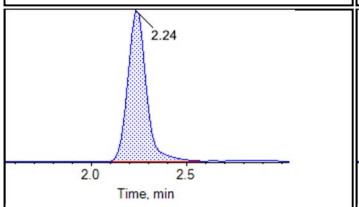
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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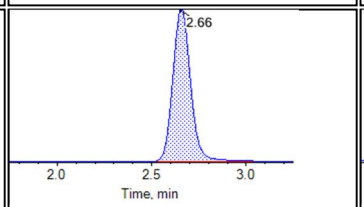

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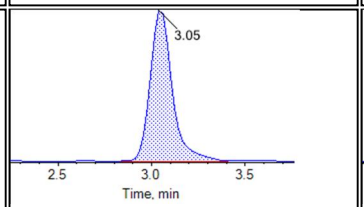
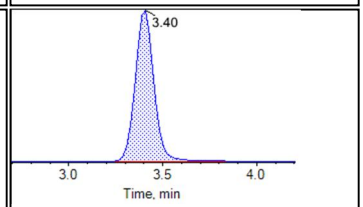


13C9-PFNA



13C6-PFDA

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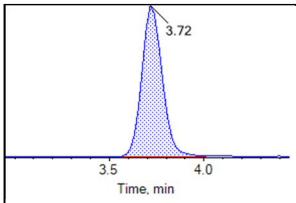
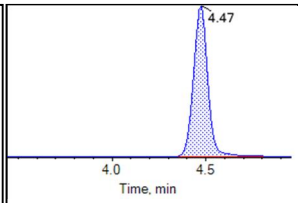



13C7-PFUnA

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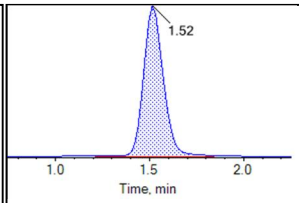
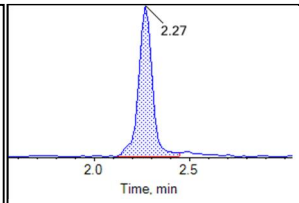



13C3-PFBS

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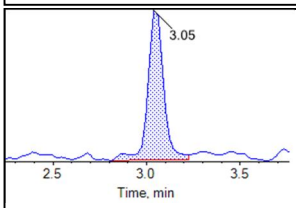


13C8-PFOS

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Chromatogram Report

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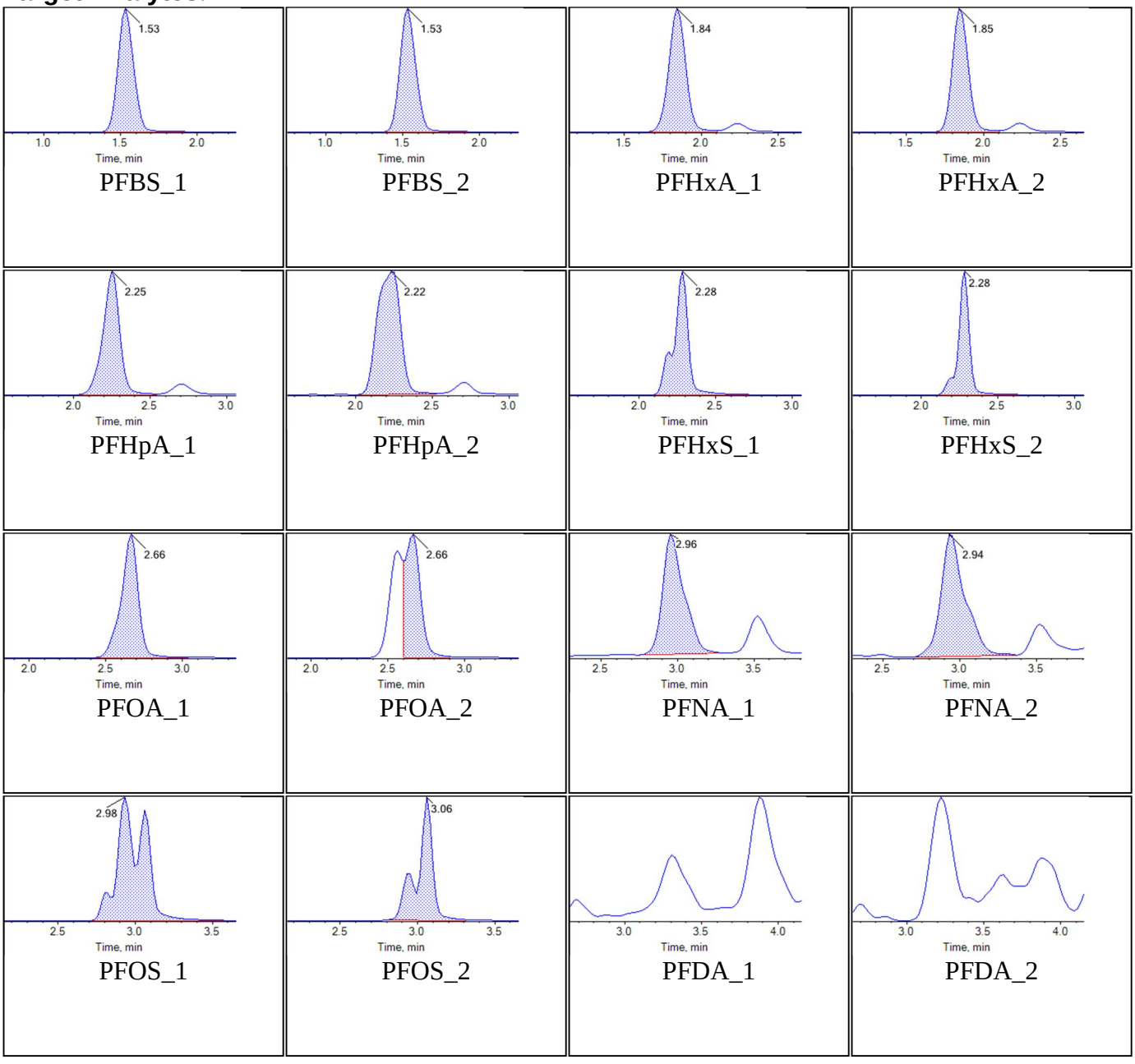
| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(3) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:22:07 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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Chromatogram Report

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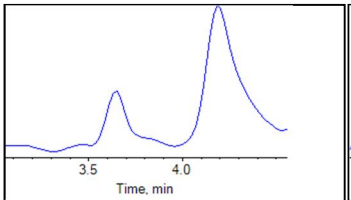
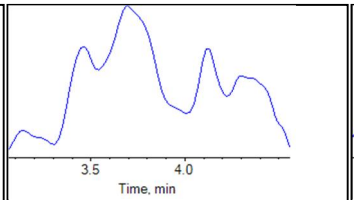


PFUnA_1



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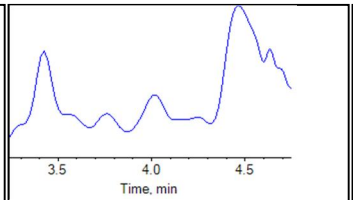

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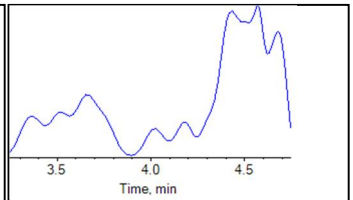

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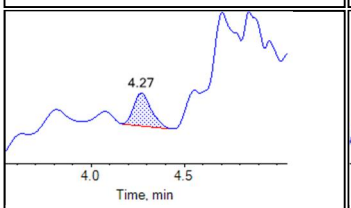

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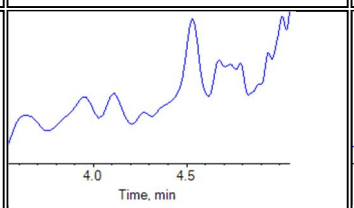

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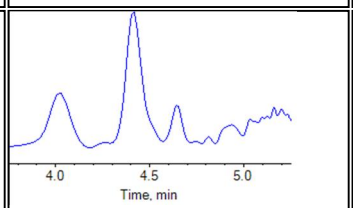

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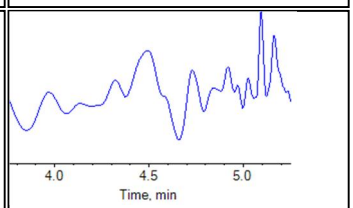

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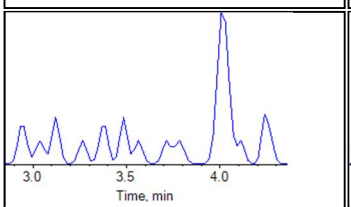

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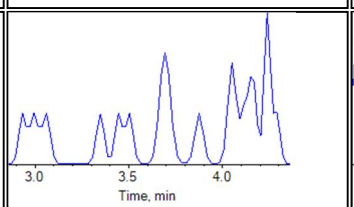

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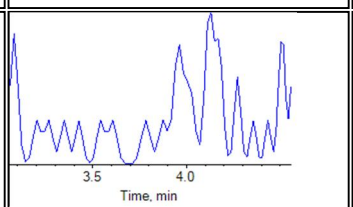

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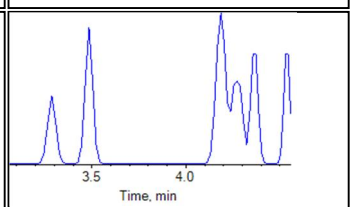

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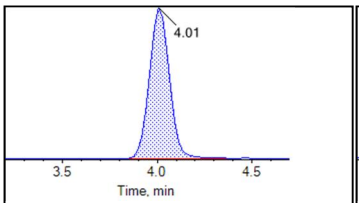

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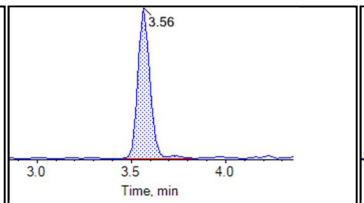

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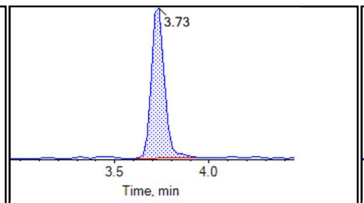

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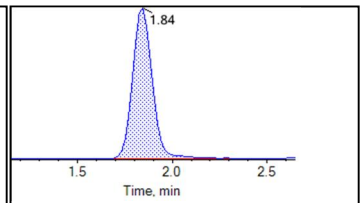

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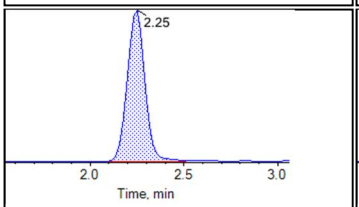

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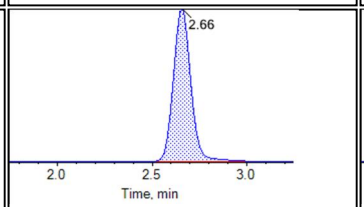

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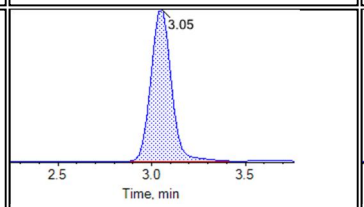

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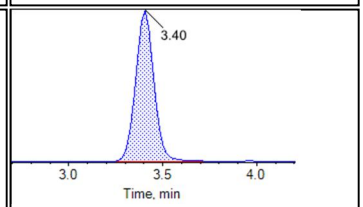

13C6-PFDA

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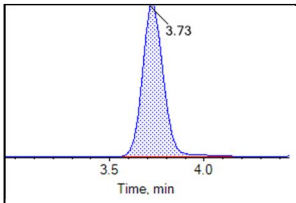


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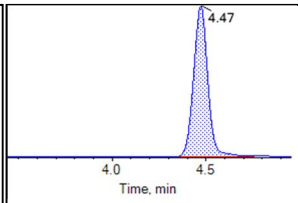


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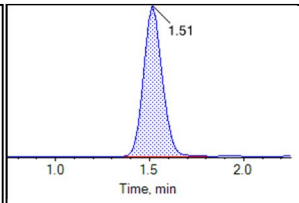


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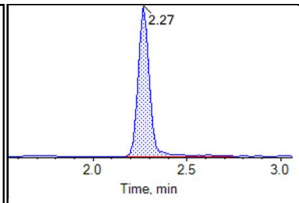


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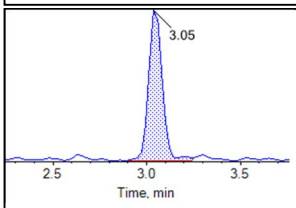


13C8-PFOS

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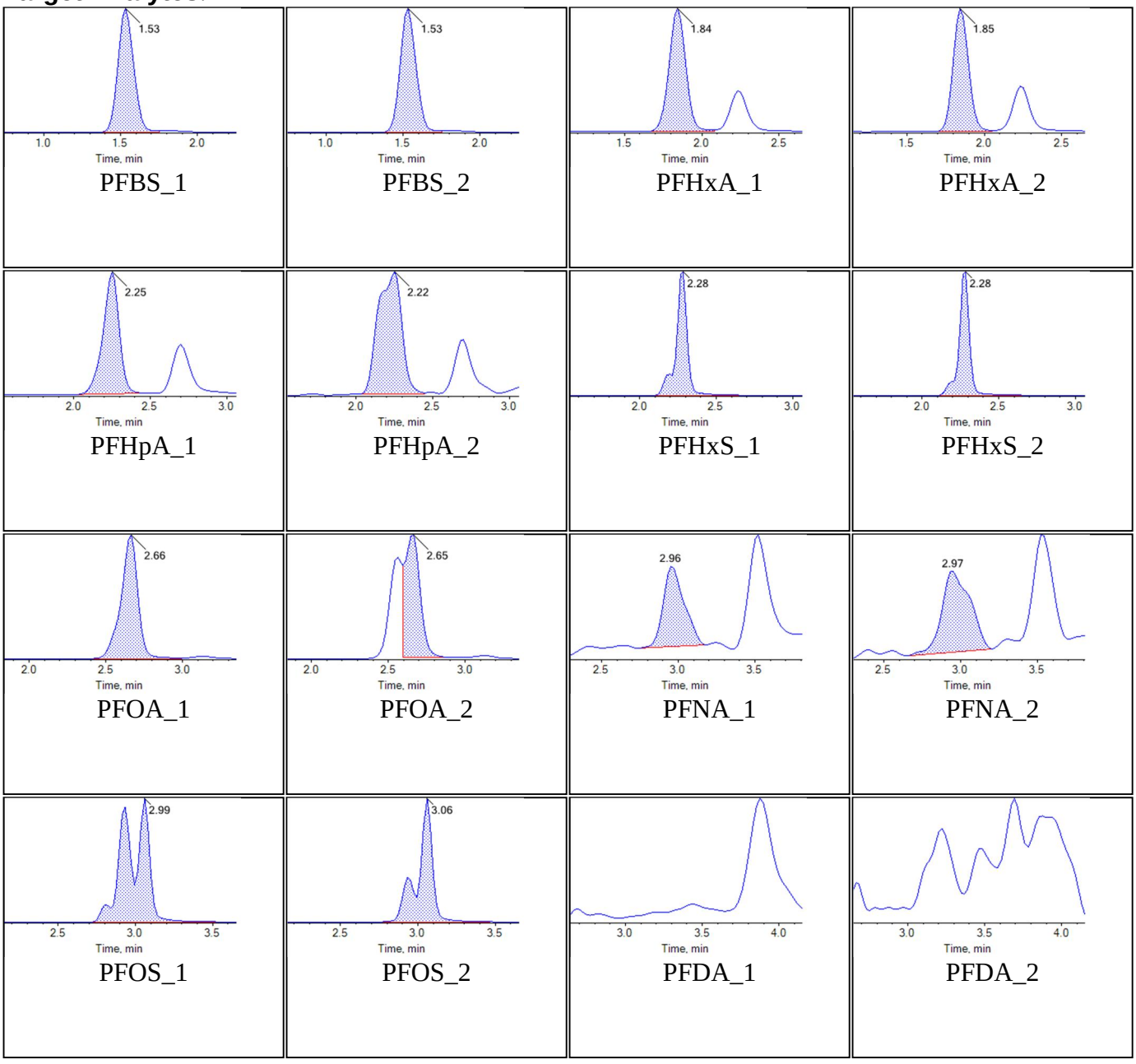
| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(5) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:32:59 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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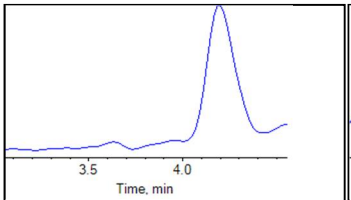

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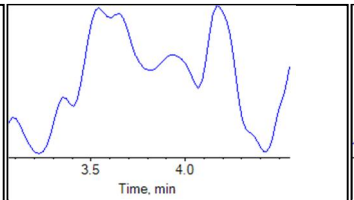

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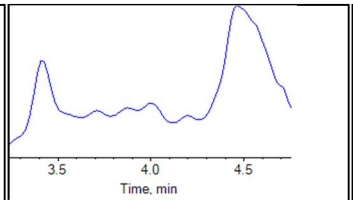

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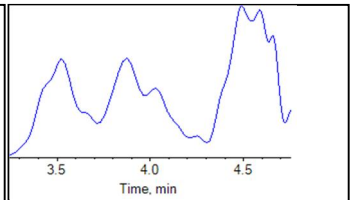
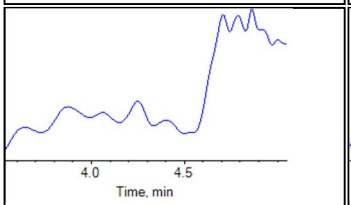


PFDoA_2



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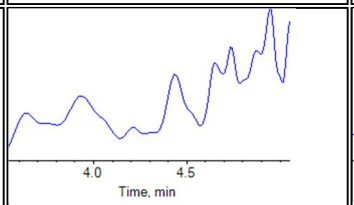

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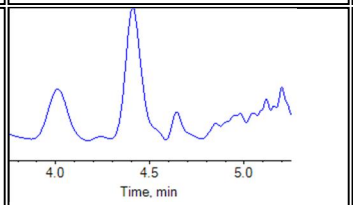

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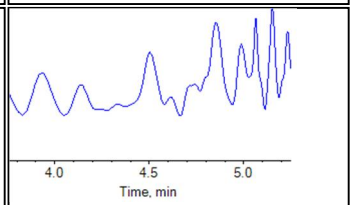

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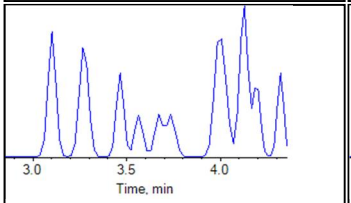

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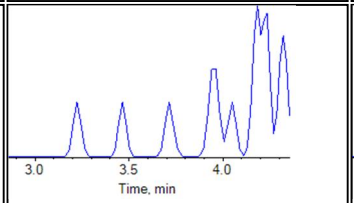

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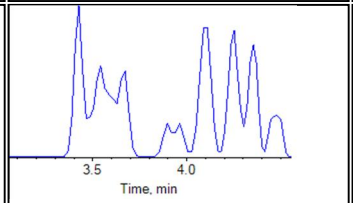

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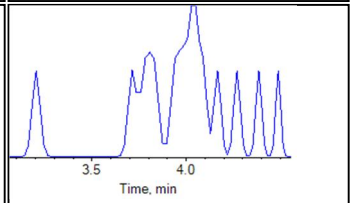

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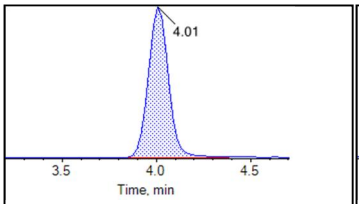

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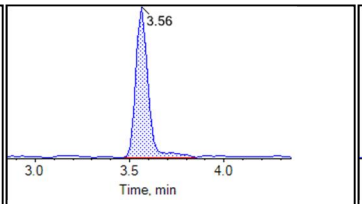
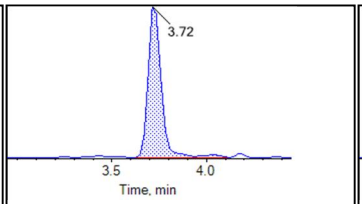
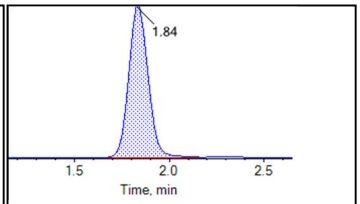


d3-MeFOSAA



d5-EtFOSAA



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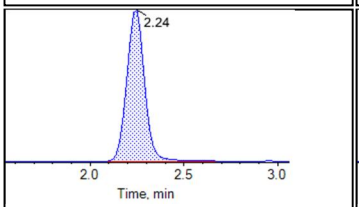

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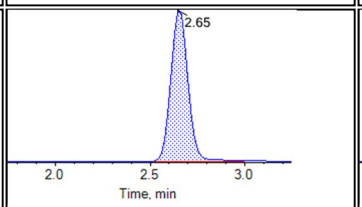

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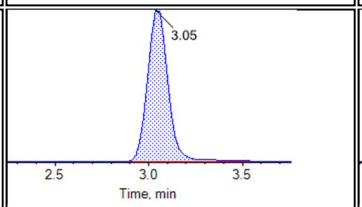
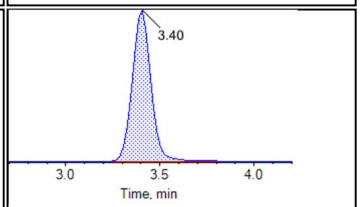


13C9-PFNA



13C6-PFDA

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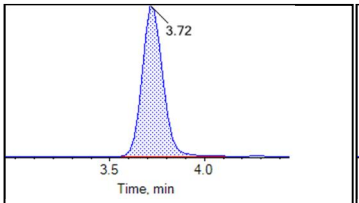


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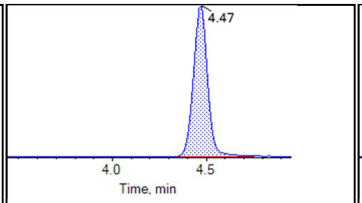


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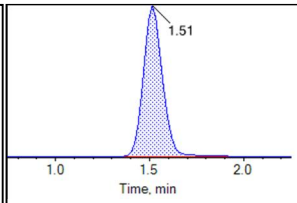


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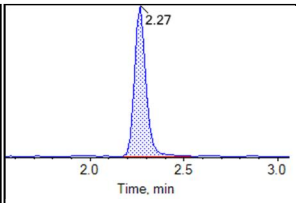


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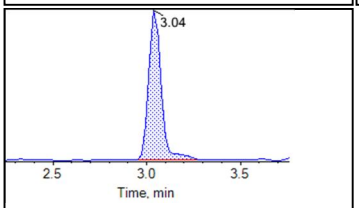


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(9) | **Injection Vial** | 41 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:54:43 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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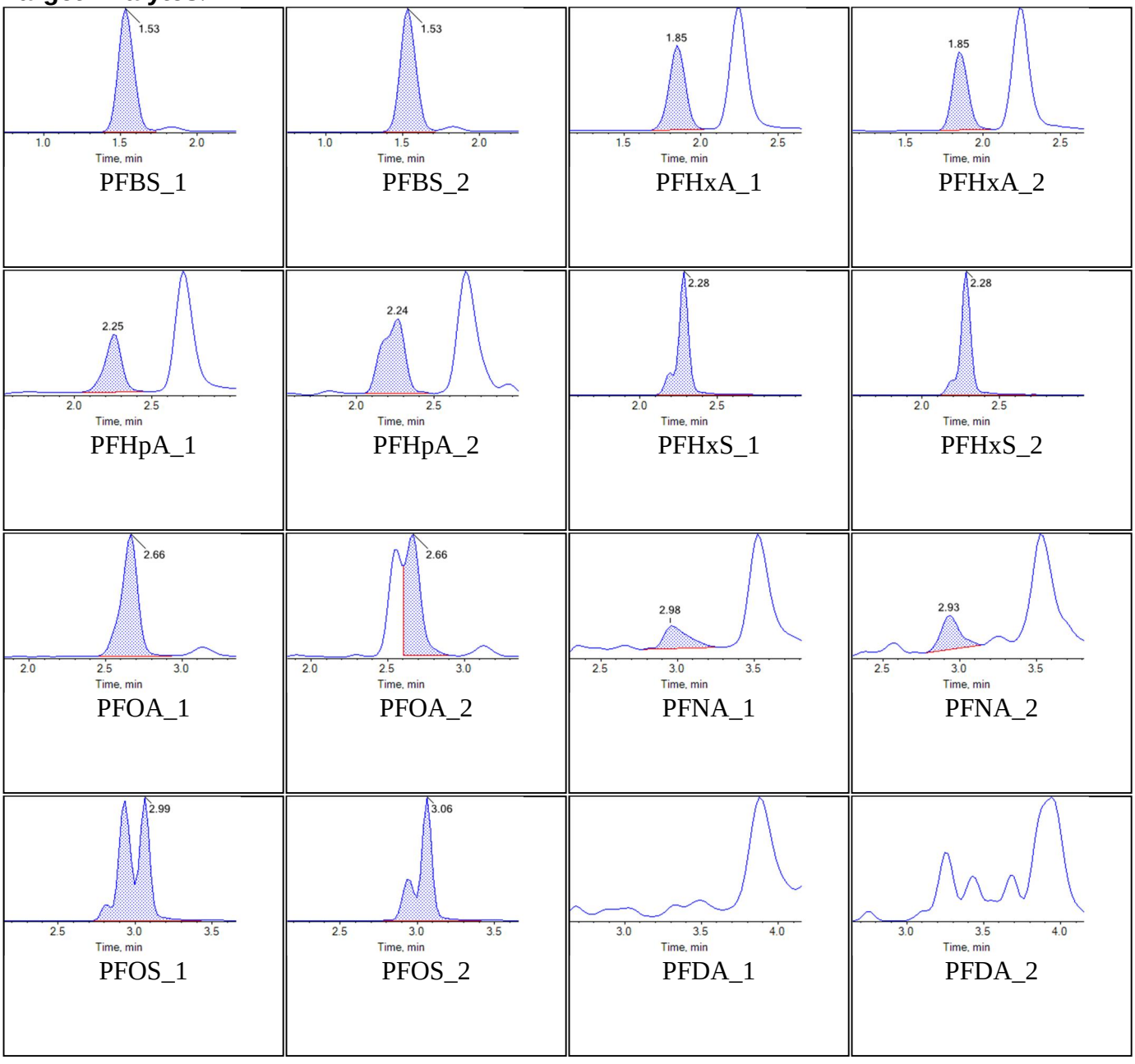

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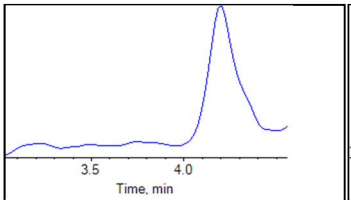

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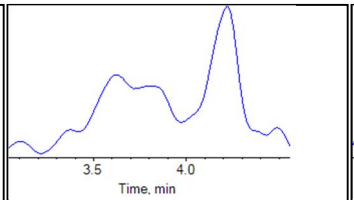

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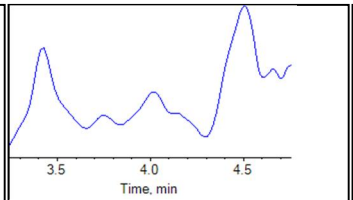

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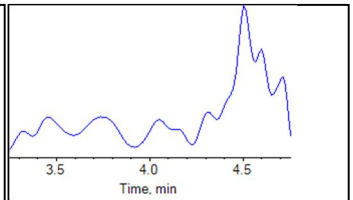

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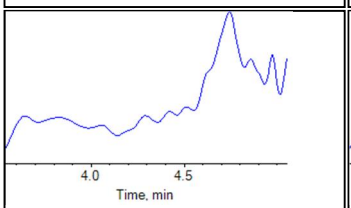

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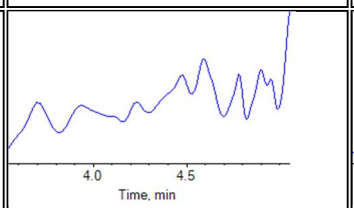

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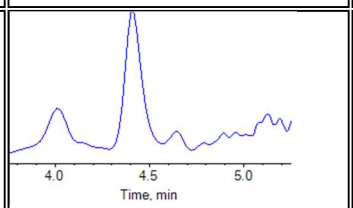

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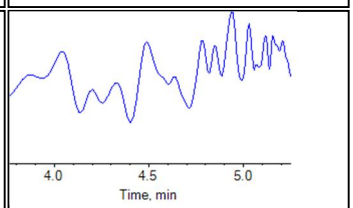

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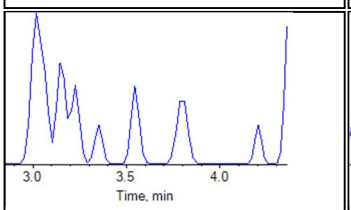

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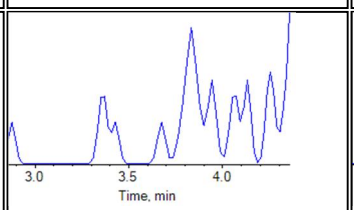

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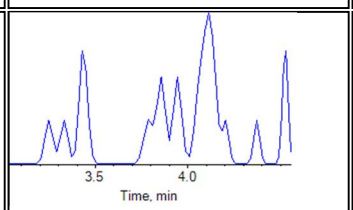

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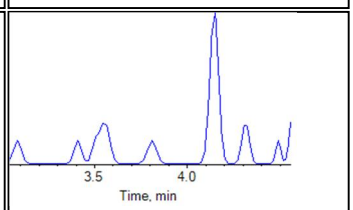

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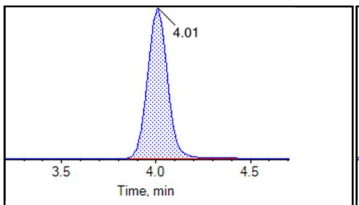

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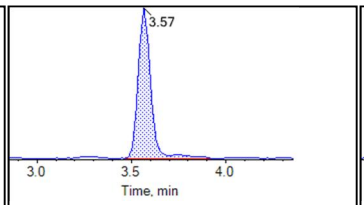

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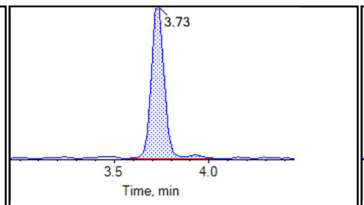

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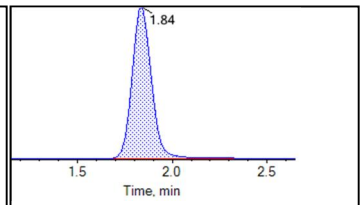

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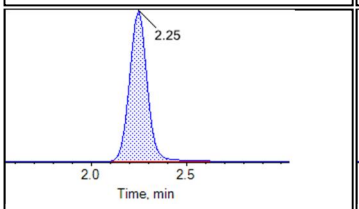

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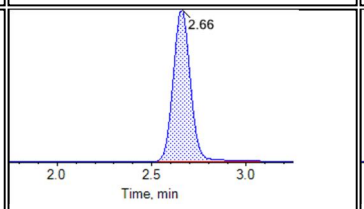

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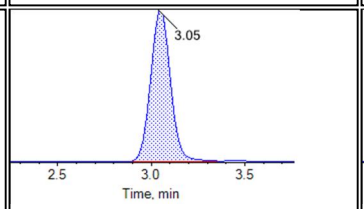

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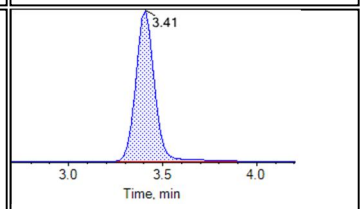

13C6-PFDA

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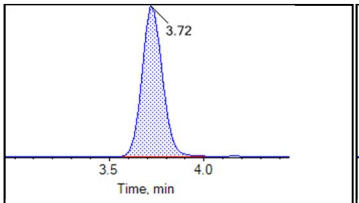


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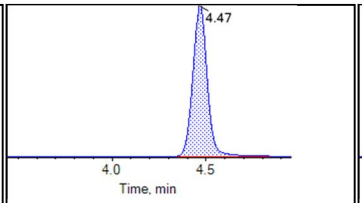


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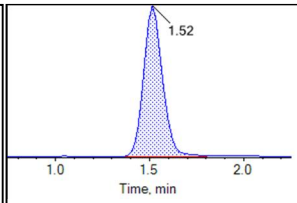


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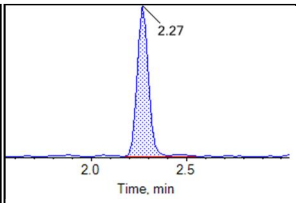


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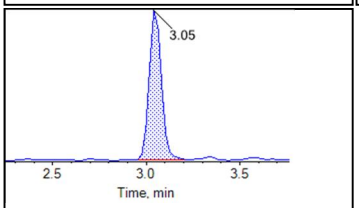


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS(0) | **Injection Vial** | 42 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:05:34 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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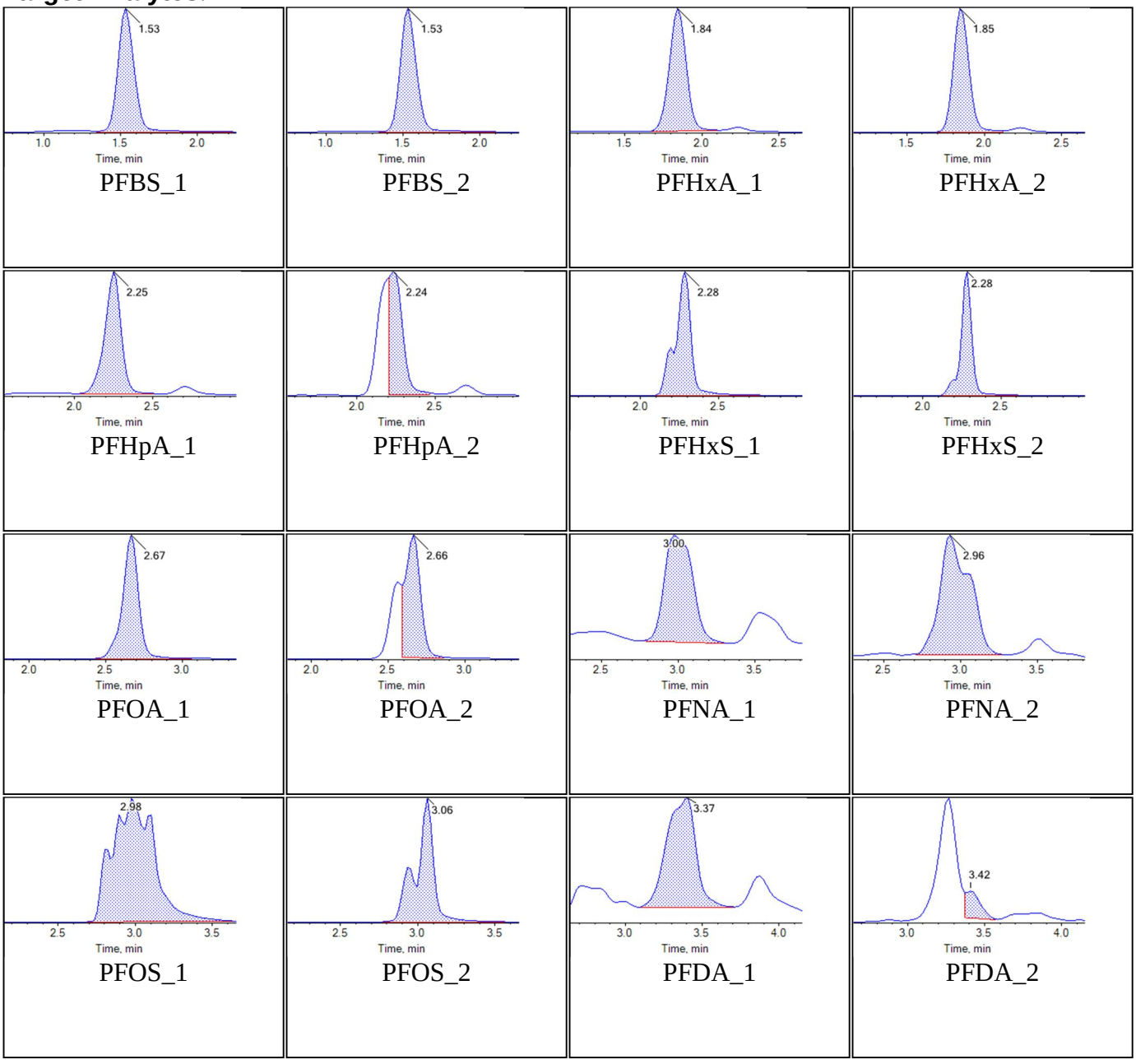

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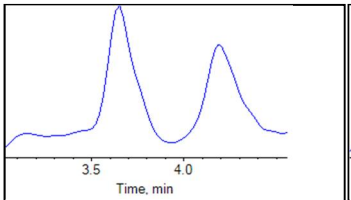

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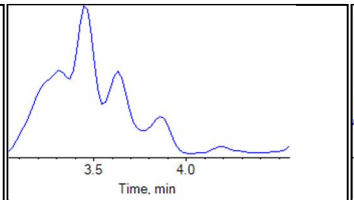

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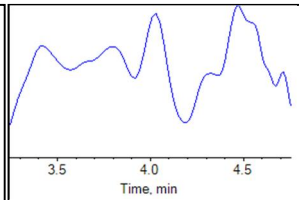

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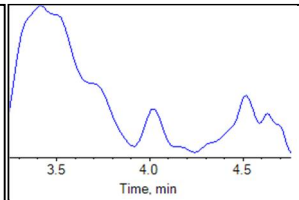

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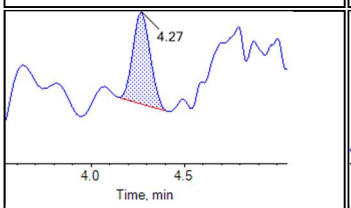

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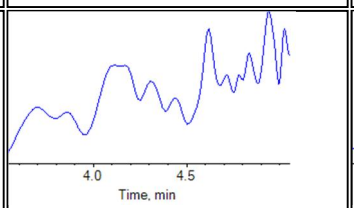

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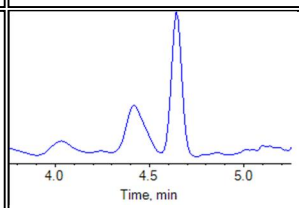

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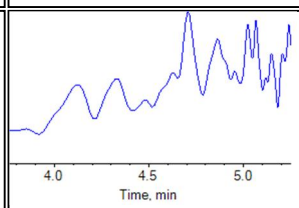

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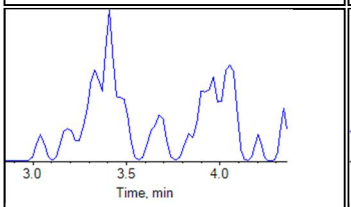

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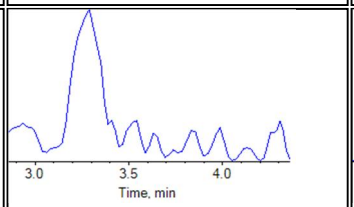

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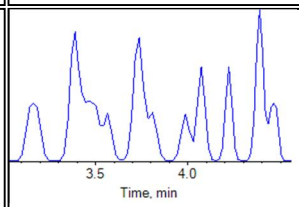

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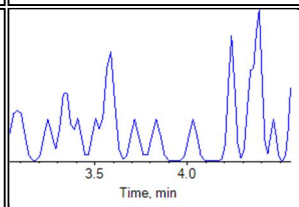

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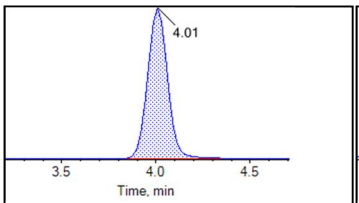

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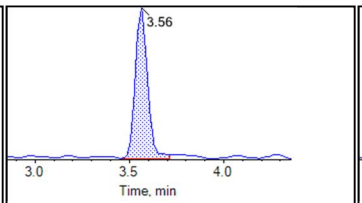

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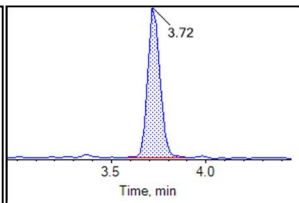

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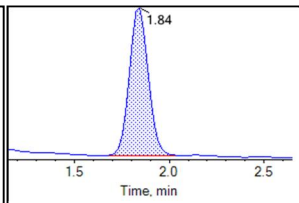

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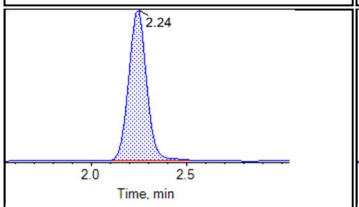

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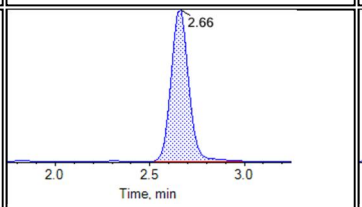

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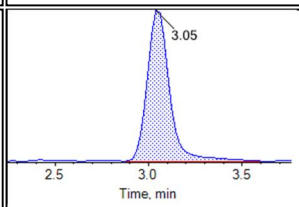

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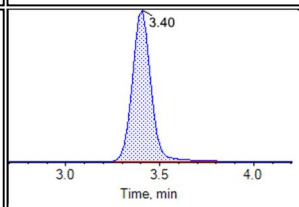

13C6-PFDA

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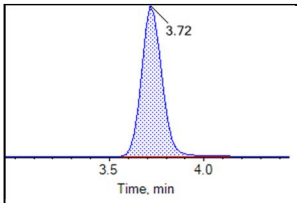


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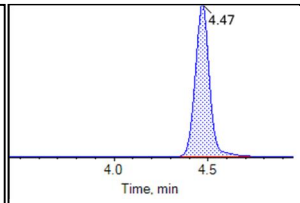


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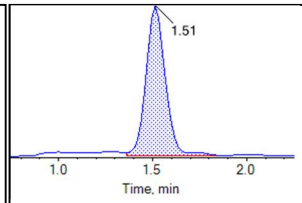


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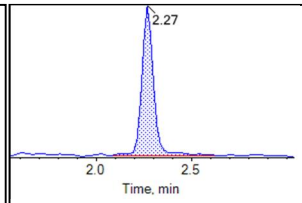


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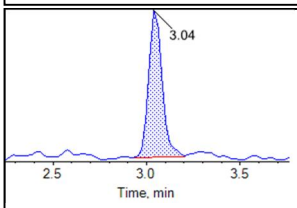


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(3) | **Injection Vial** | 43 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:16:26 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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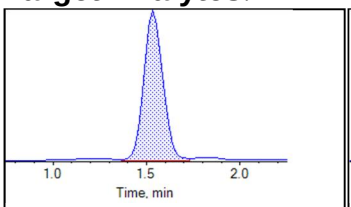

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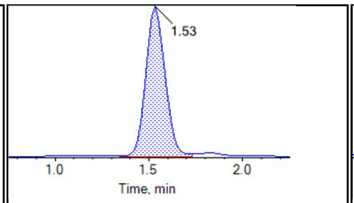

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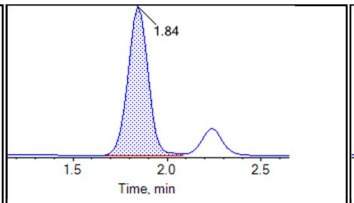

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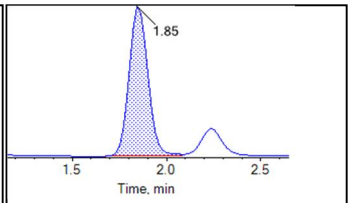

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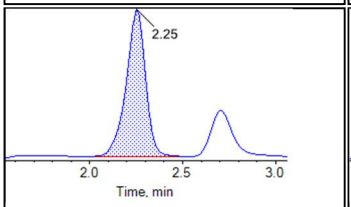

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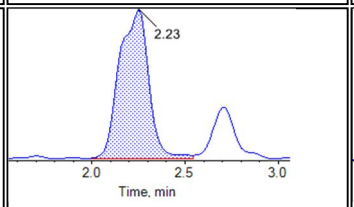

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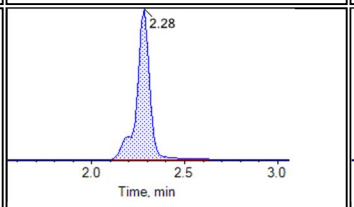

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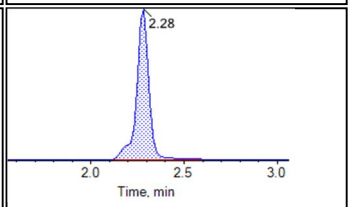

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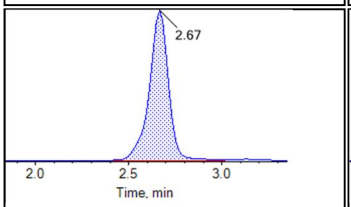

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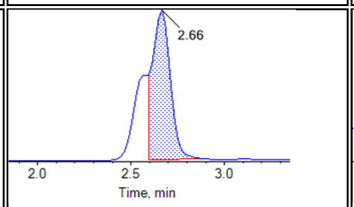

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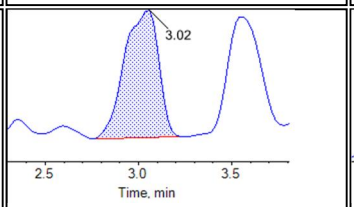

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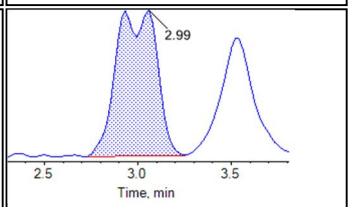

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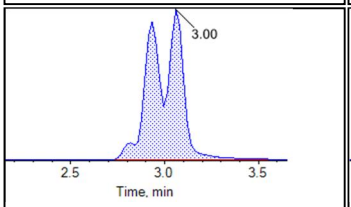

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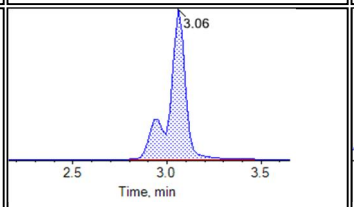

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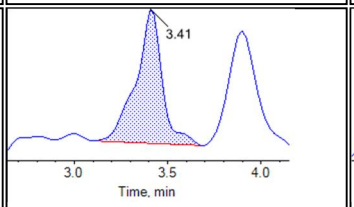

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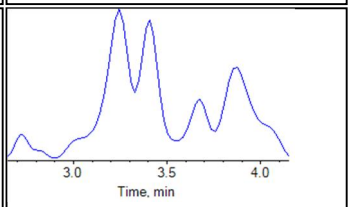

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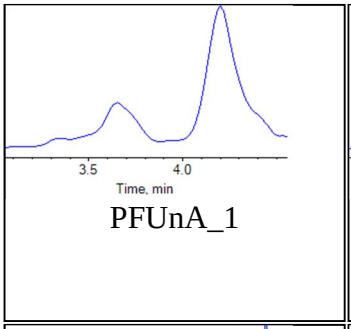

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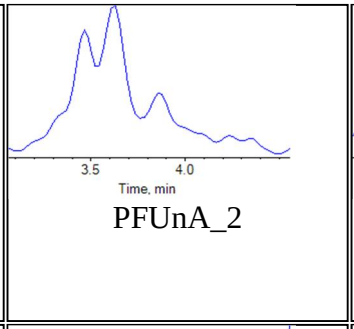

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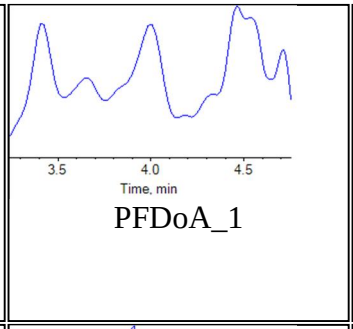

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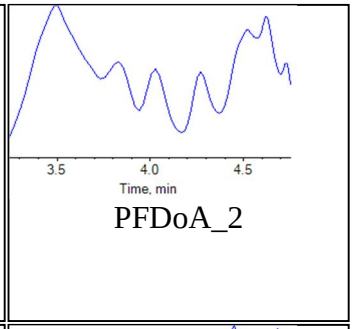

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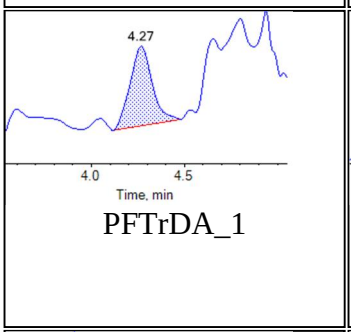

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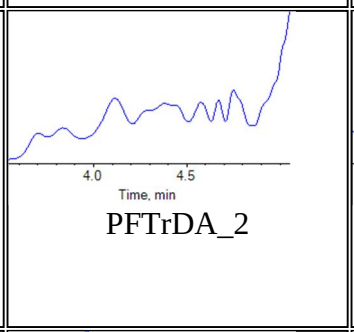

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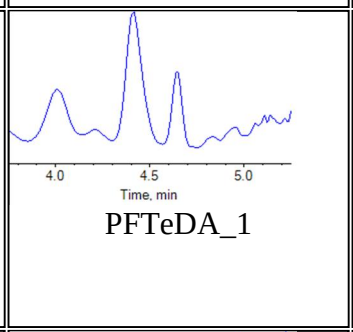

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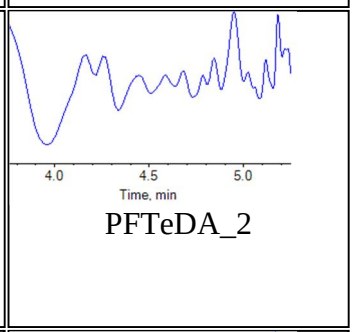

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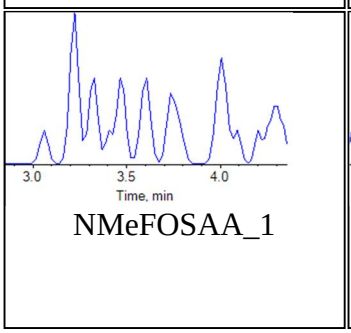

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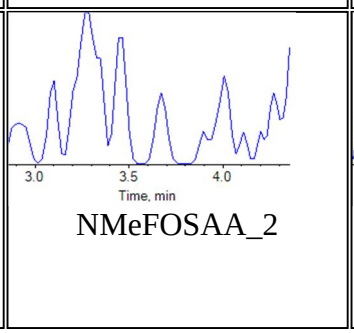

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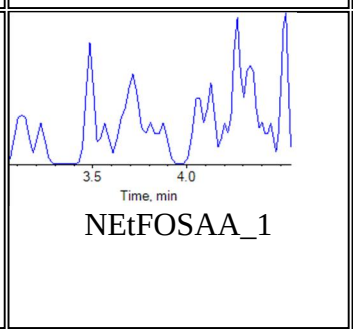

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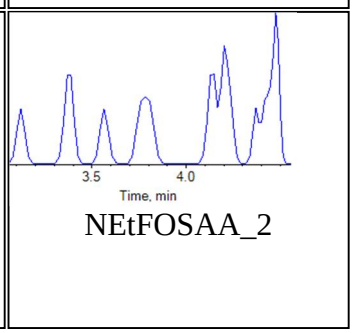

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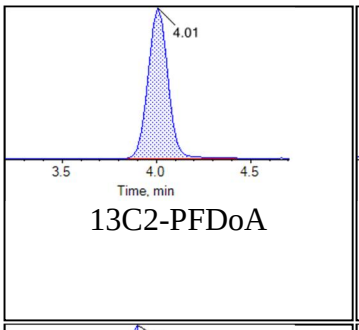

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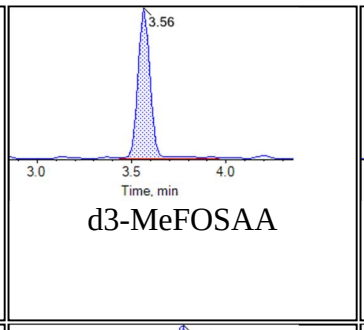

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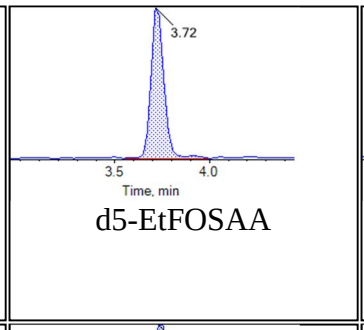

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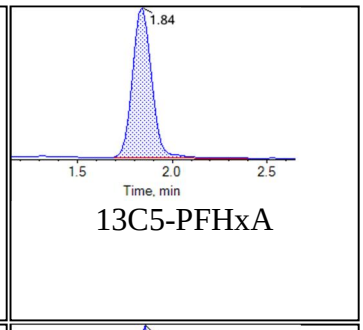

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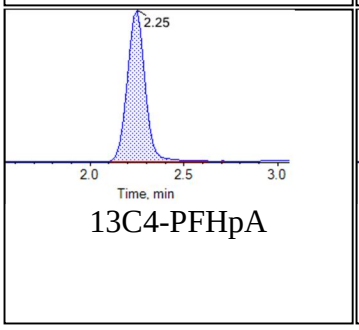

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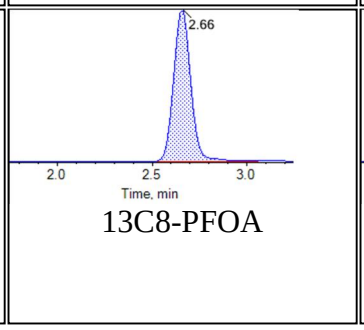

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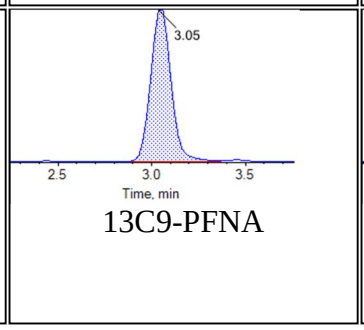

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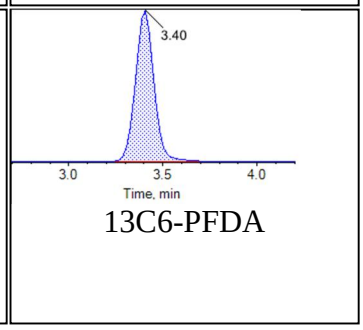

13C6-PFDA

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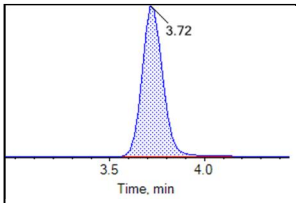


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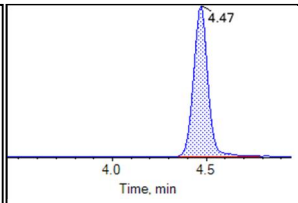


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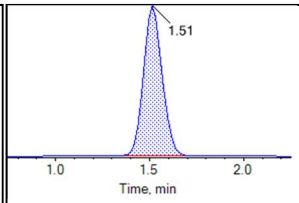


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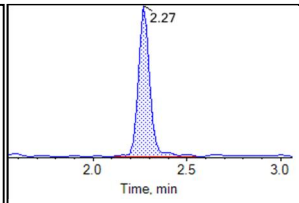


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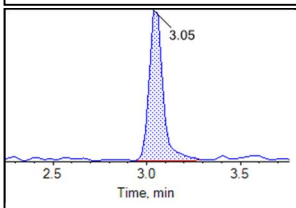


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(7) | **Injection Vial** | 45 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:38:08 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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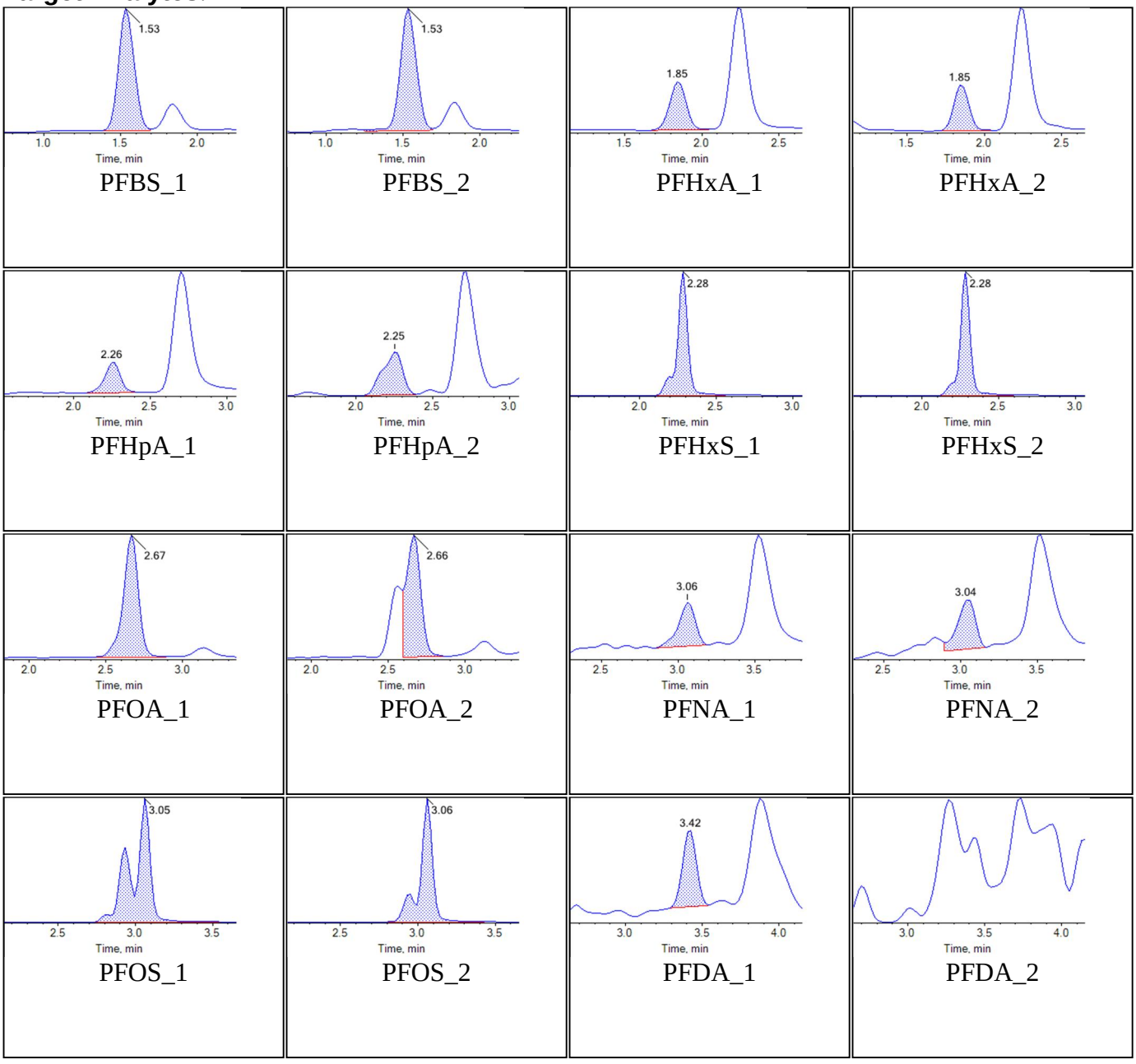

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Chromatogram Report

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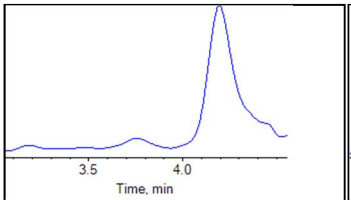

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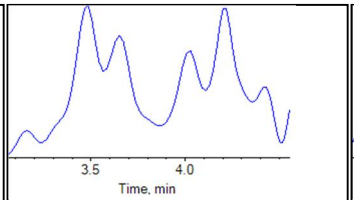

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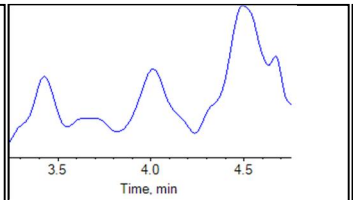

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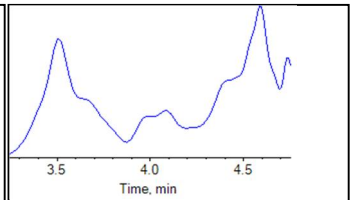

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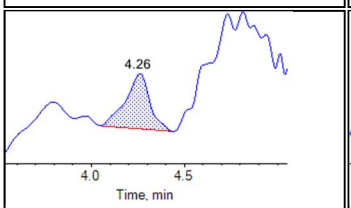

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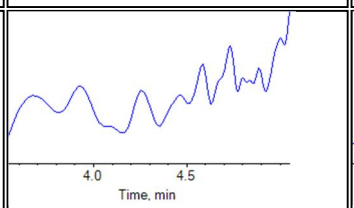

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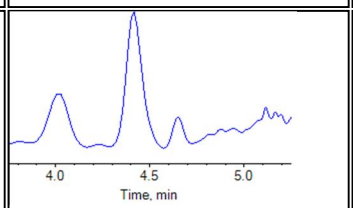

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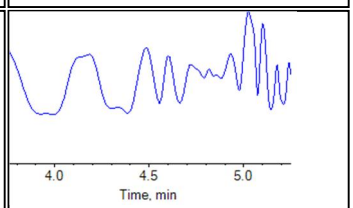

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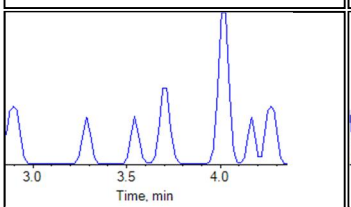

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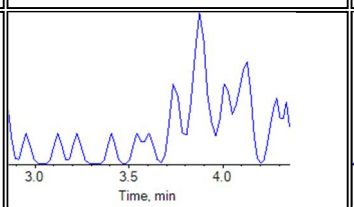

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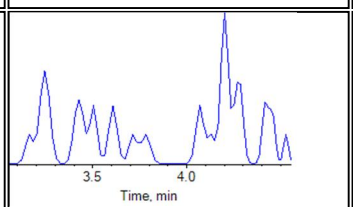

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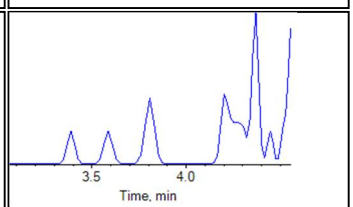

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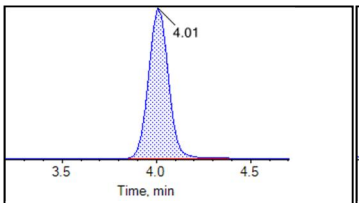

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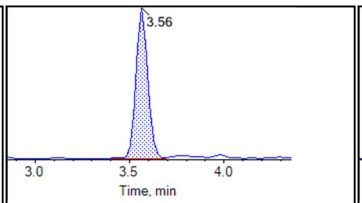

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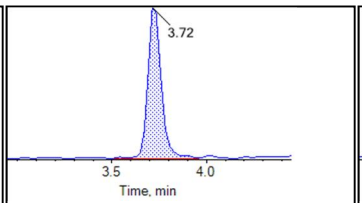

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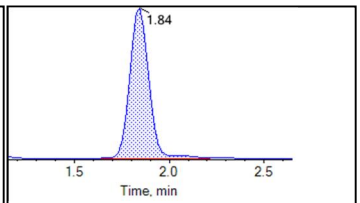

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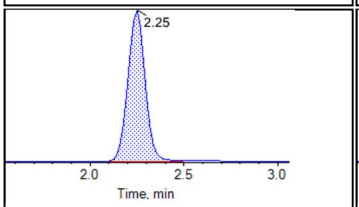

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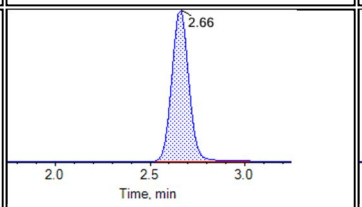

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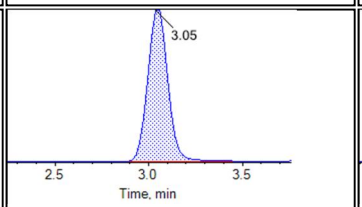
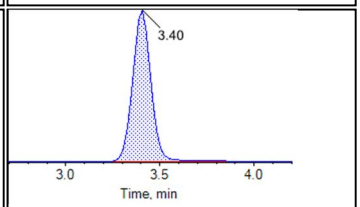


13C9-PFNA



13C6-PFDA

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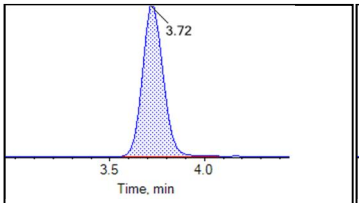
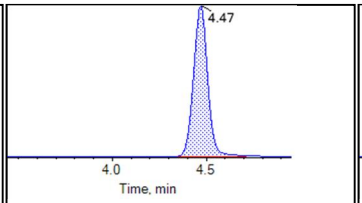



13C7-PFUnA

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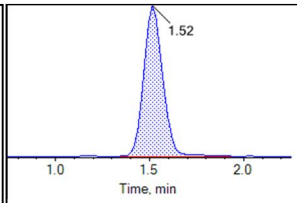
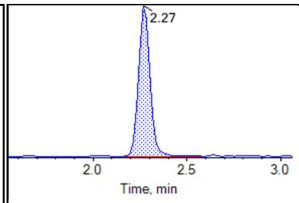



13C3-PFBS

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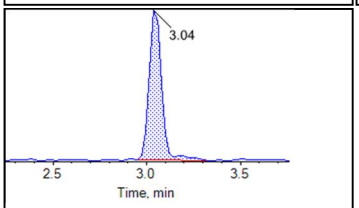


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:46:24 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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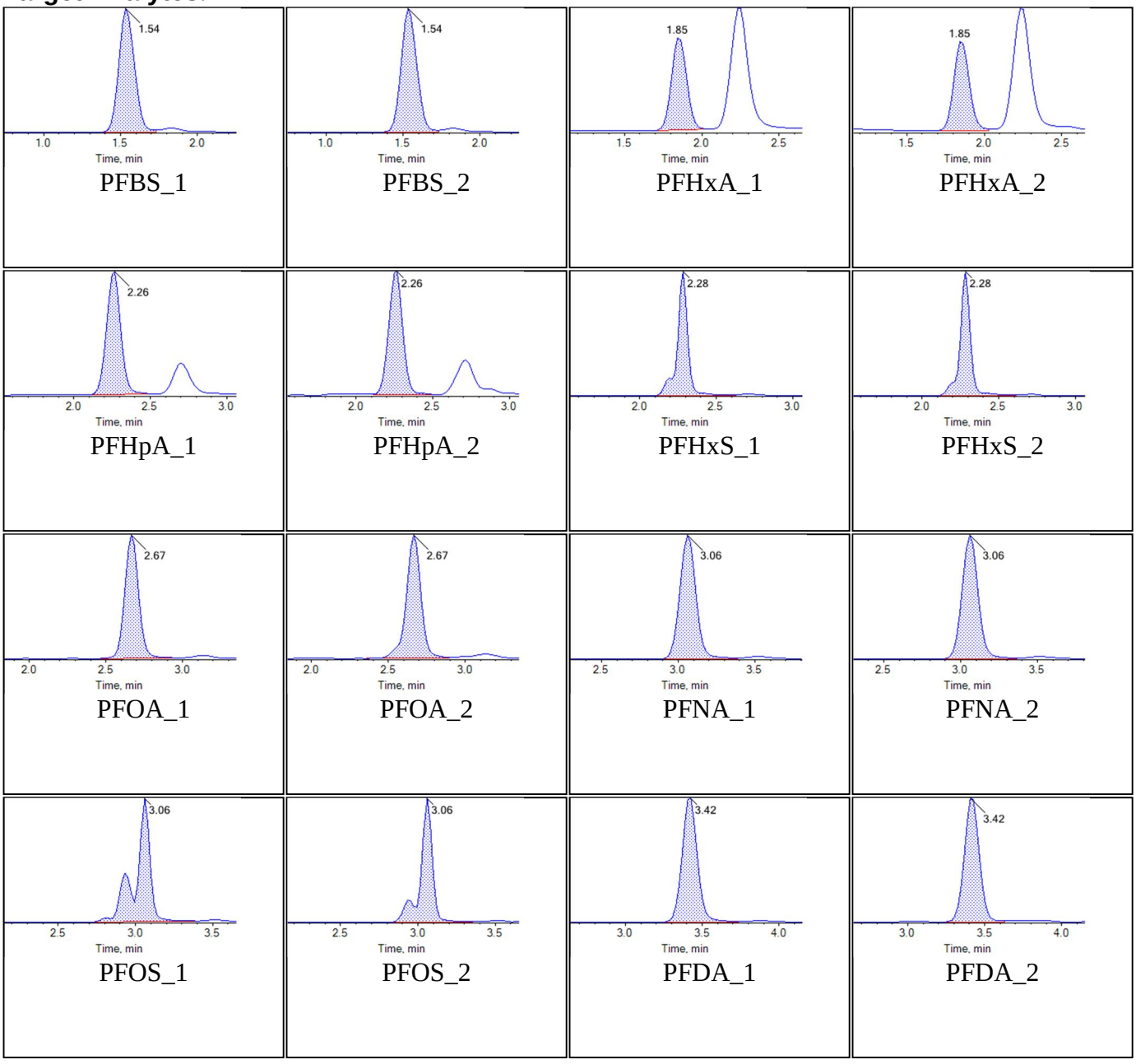

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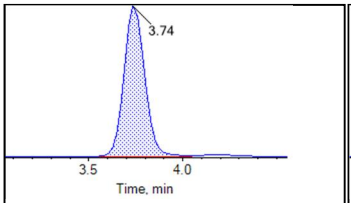

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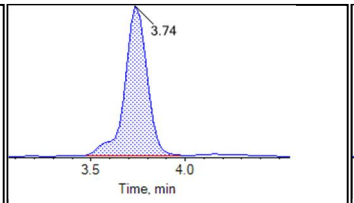

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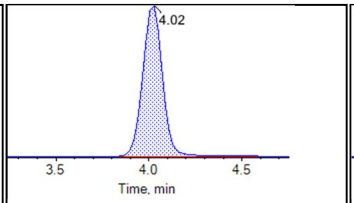

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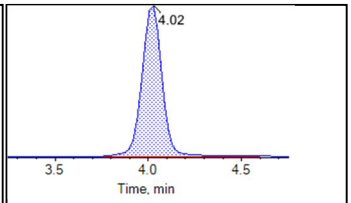
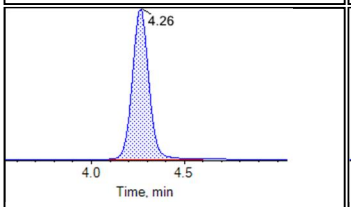


PFDoA_2



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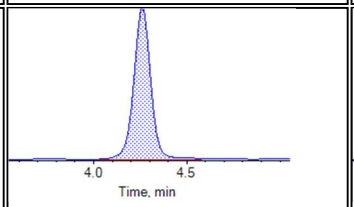

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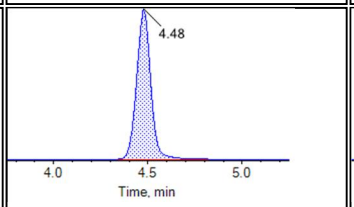

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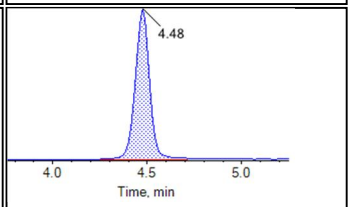

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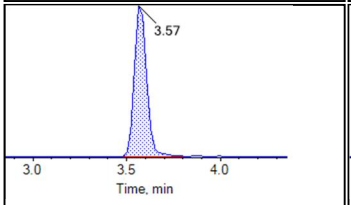

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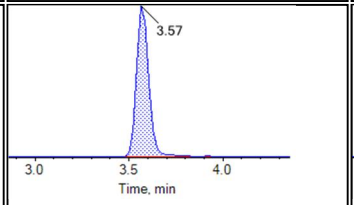

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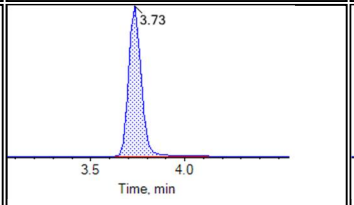

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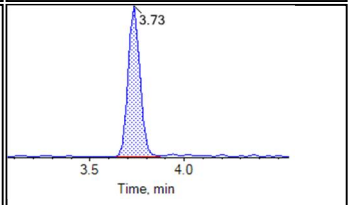

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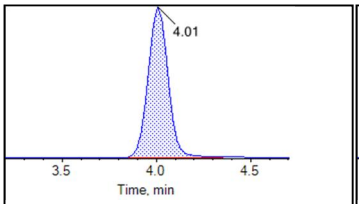

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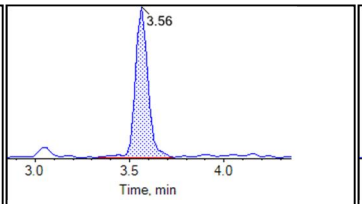

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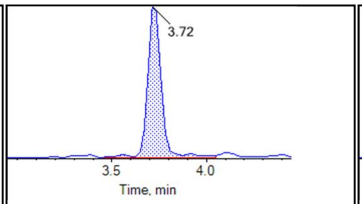
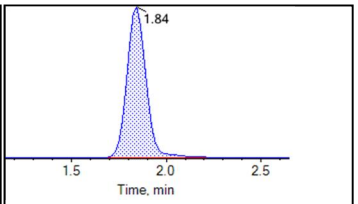


d5-EtFOSAA



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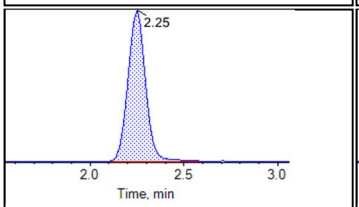

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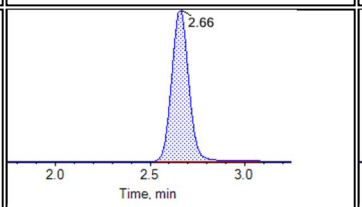

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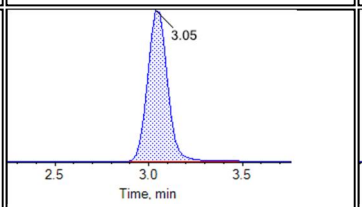
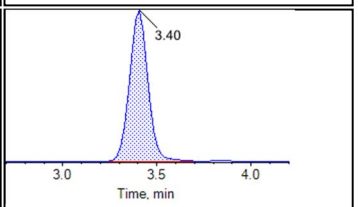


13C9-PFNA



13C6-PFDA

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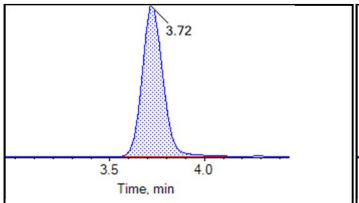
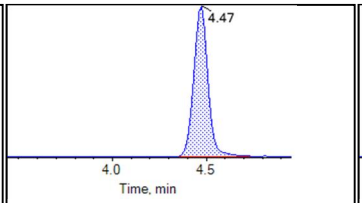



13C7-PFUnA

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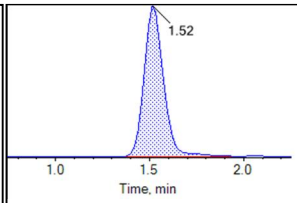


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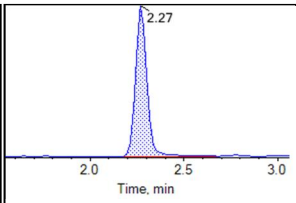


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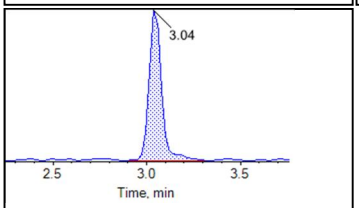


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:46:34 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS(0) | **Injection Vial** | 48 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:10:45 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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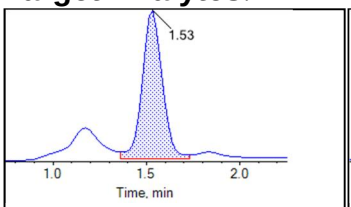

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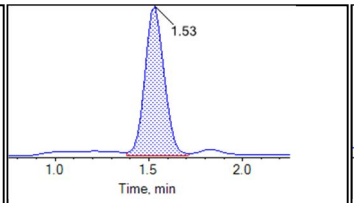
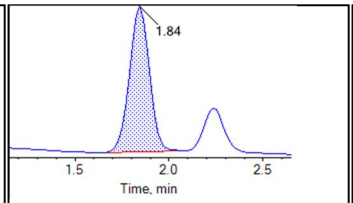
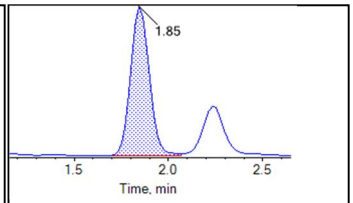


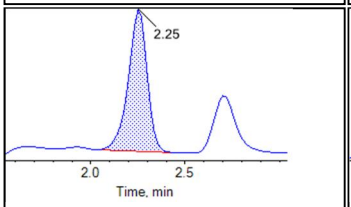
PFBS_2



PFHxA_1



PFHxA_2



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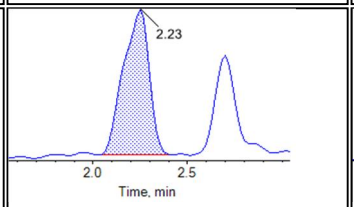

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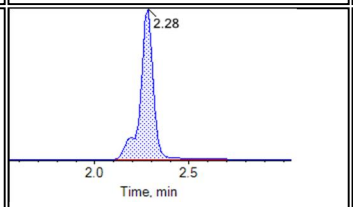

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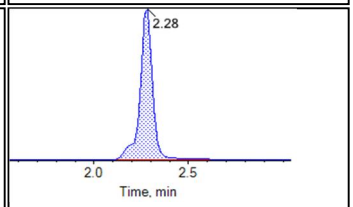

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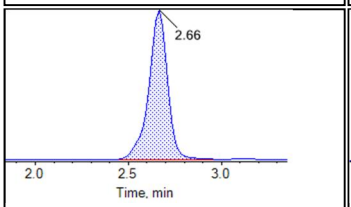

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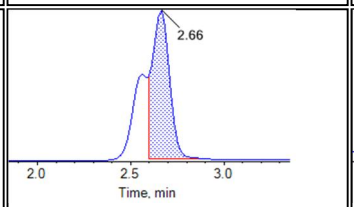

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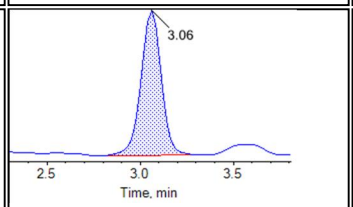

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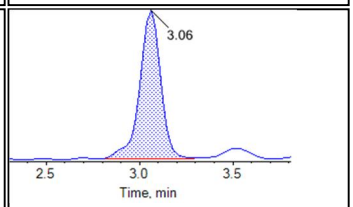

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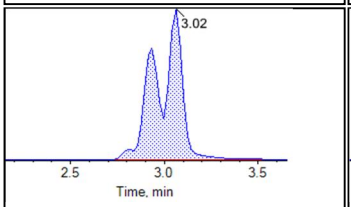

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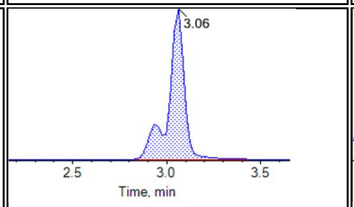

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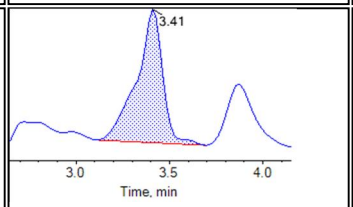

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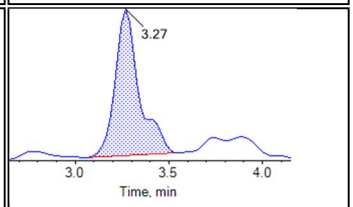

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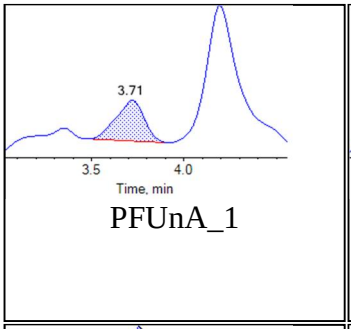

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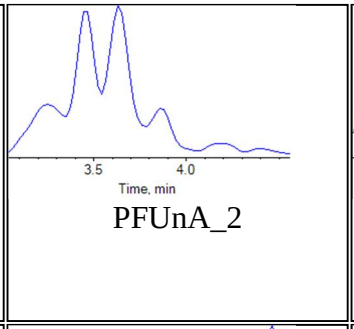

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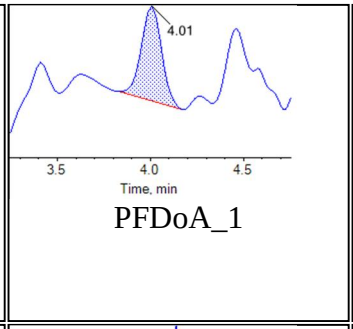

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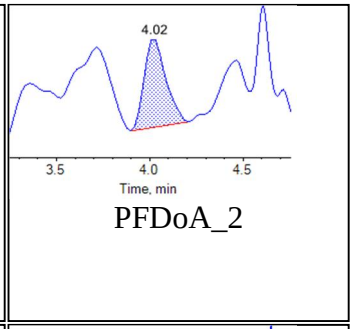

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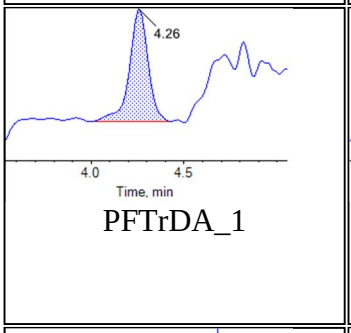

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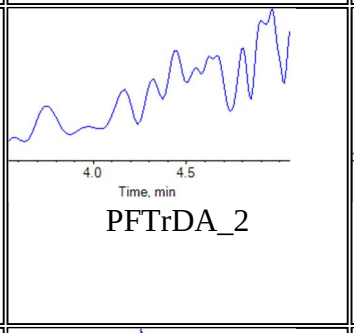

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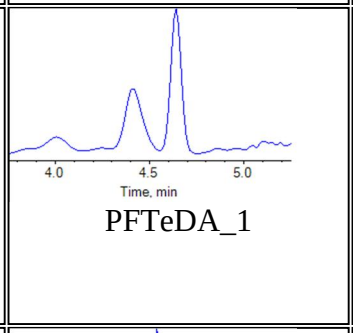

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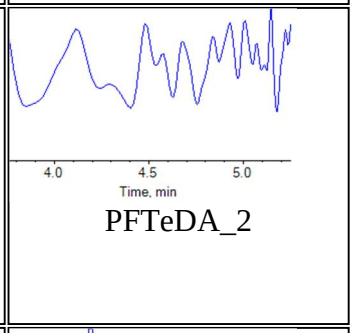

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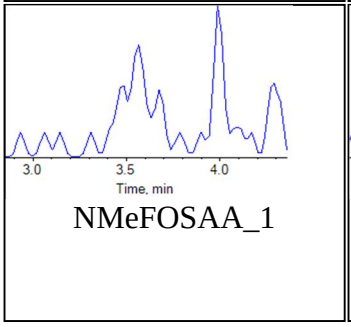

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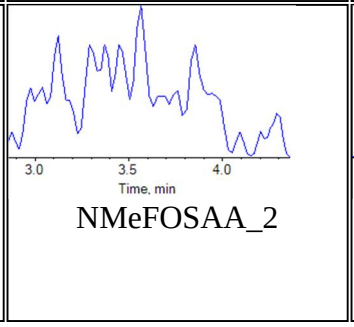

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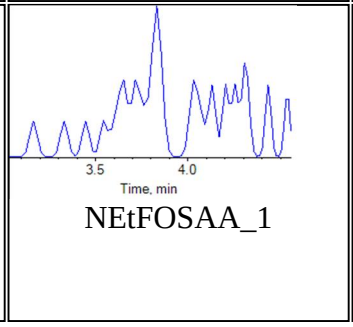

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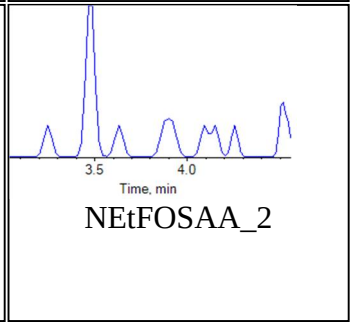

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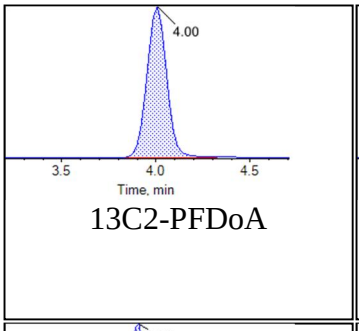

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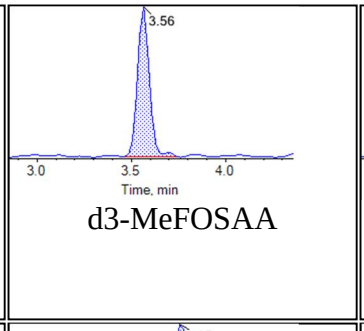

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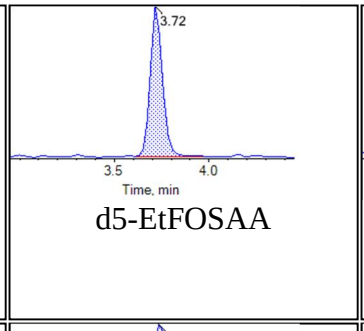

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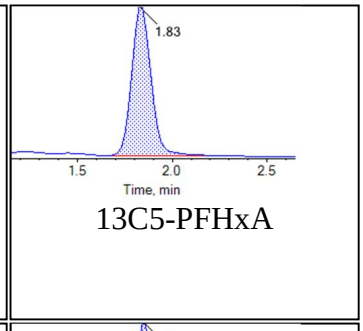

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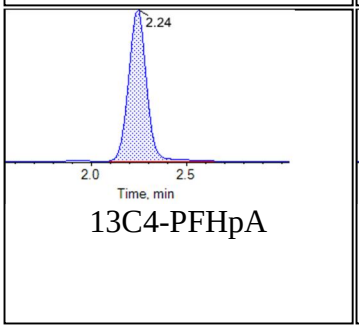

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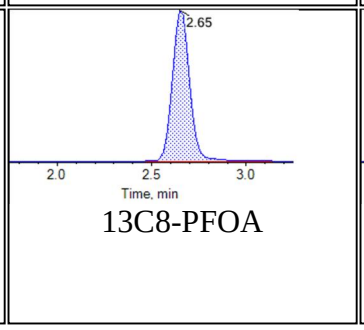

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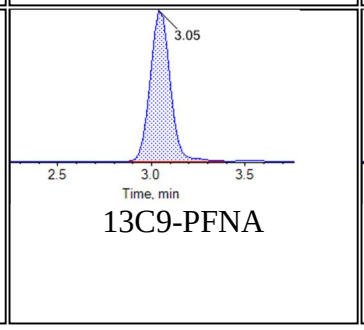

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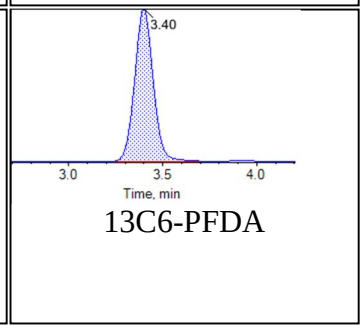

13C6-PFDA

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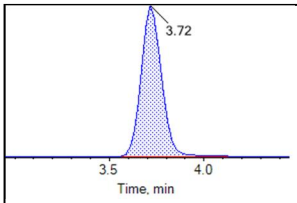


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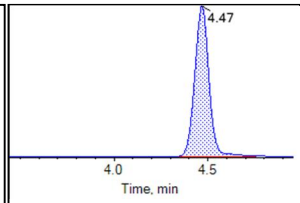


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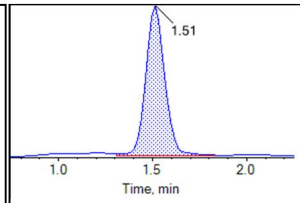
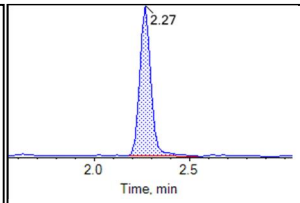



13C3-PFBS

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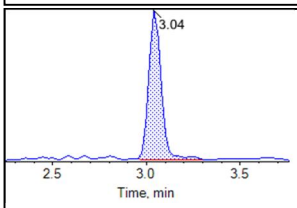


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(3) | **Injection Vial** | 49 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:21:37 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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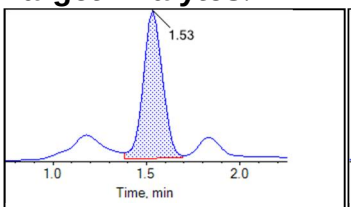

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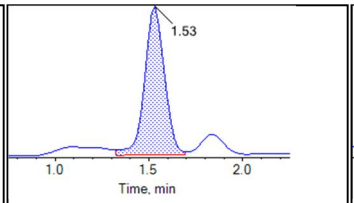

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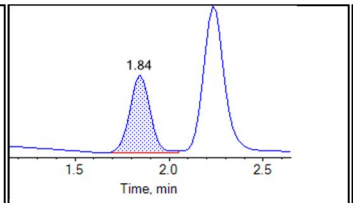

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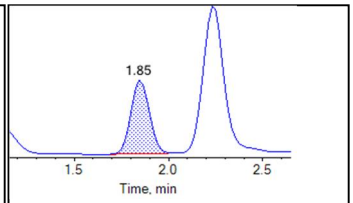

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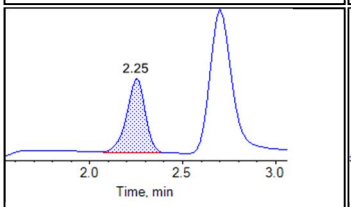

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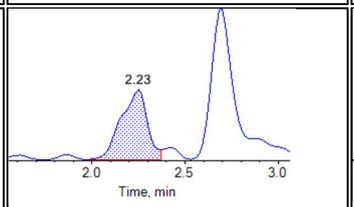

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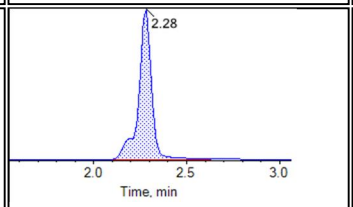

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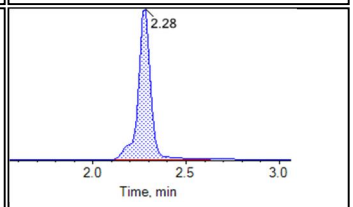

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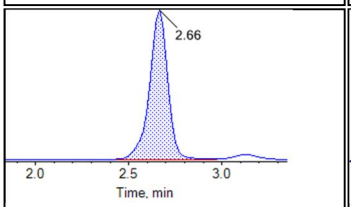

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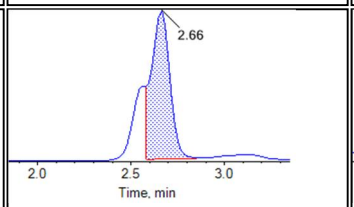

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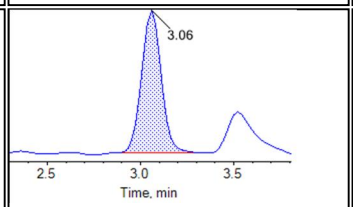

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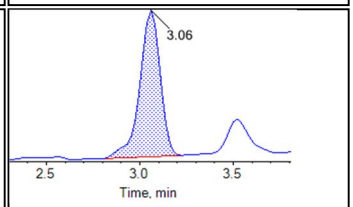

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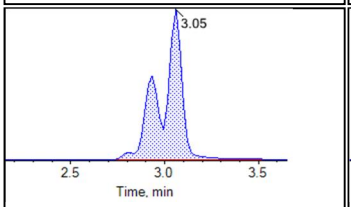

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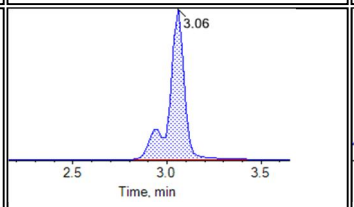

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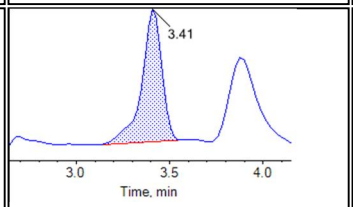

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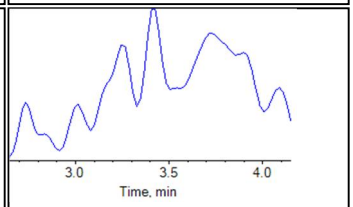

PFDA_2

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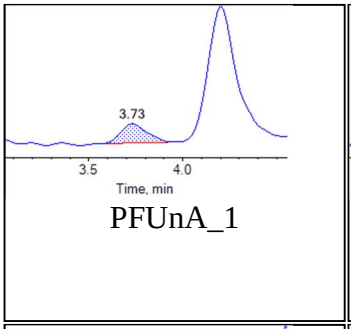

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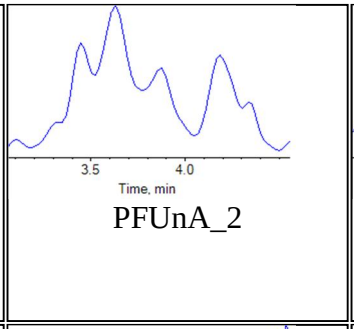

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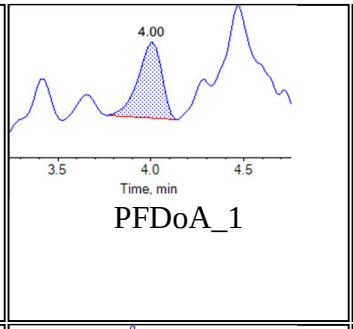

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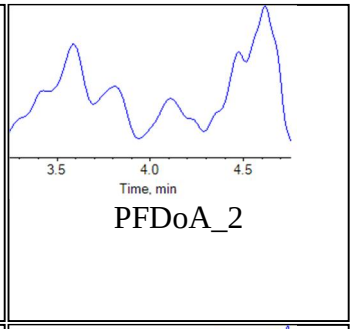

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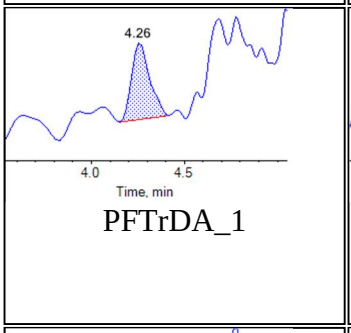
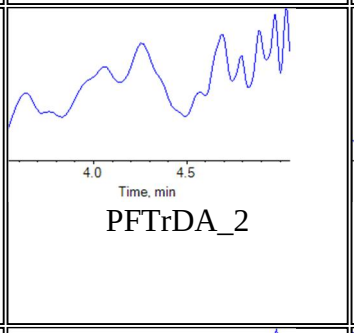


PFTrDA_1



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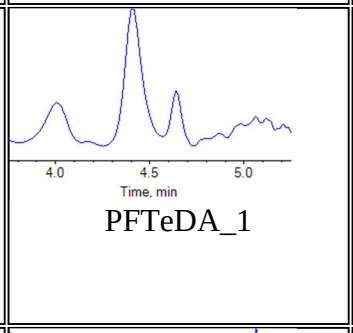

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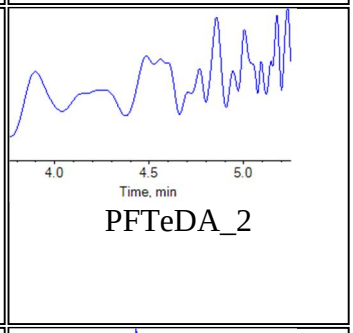

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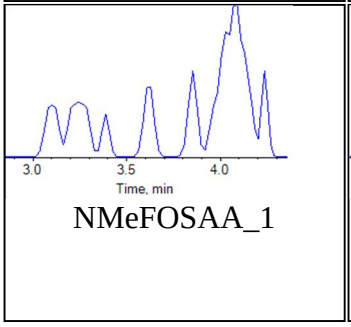

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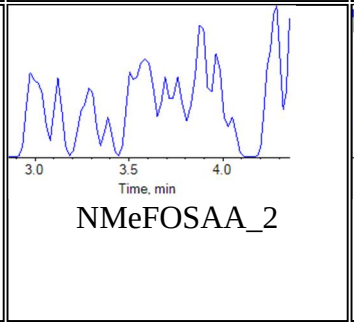

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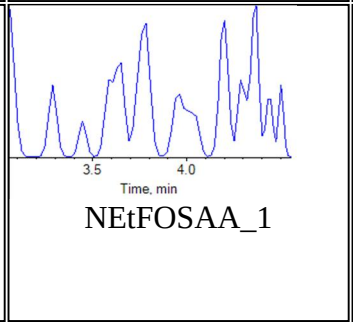

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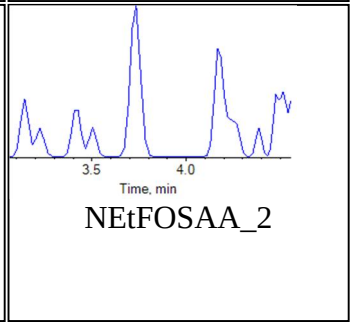

NEtFOSAA_2

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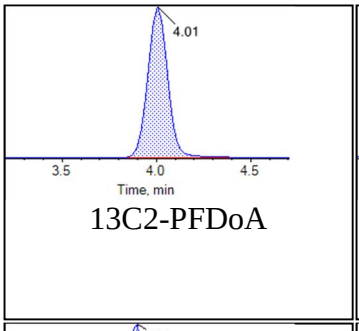

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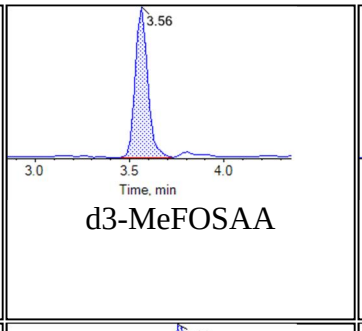
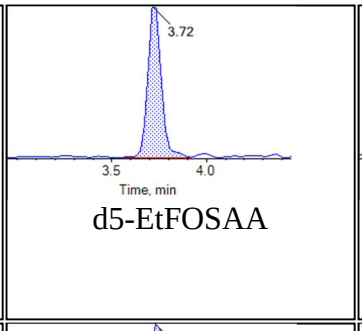


d3-MeFOSAA



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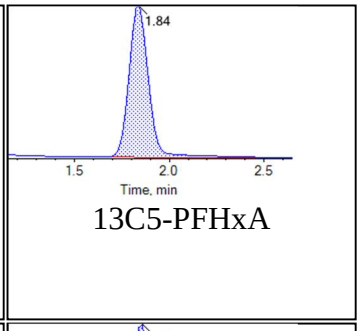

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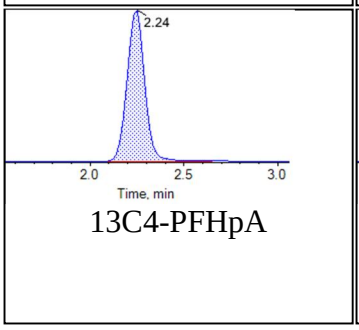

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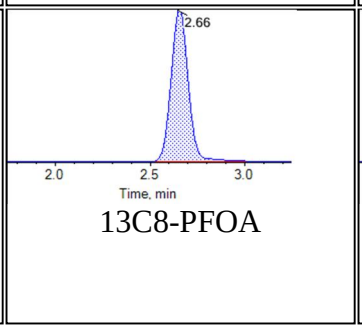
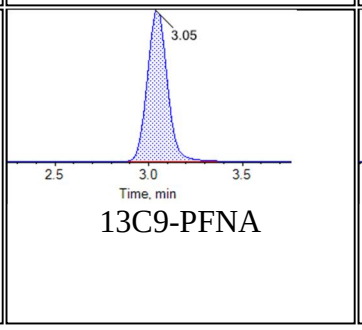
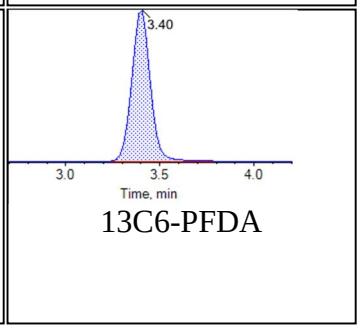


13C8-PFOA



13C9-PFNA



13C6-PFDA

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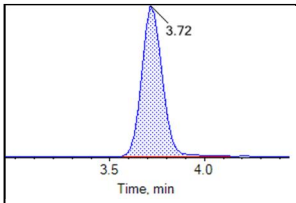
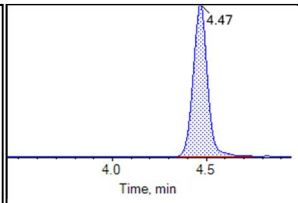



13C7-PFUnA

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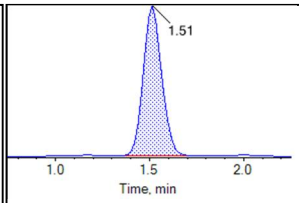
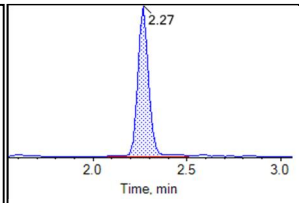



13C3-PFBS

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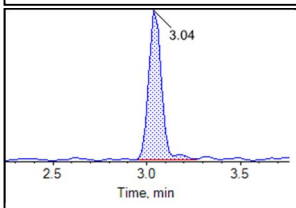


13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:46:43 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(5) | **Injection Vial** | 50 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:32:29 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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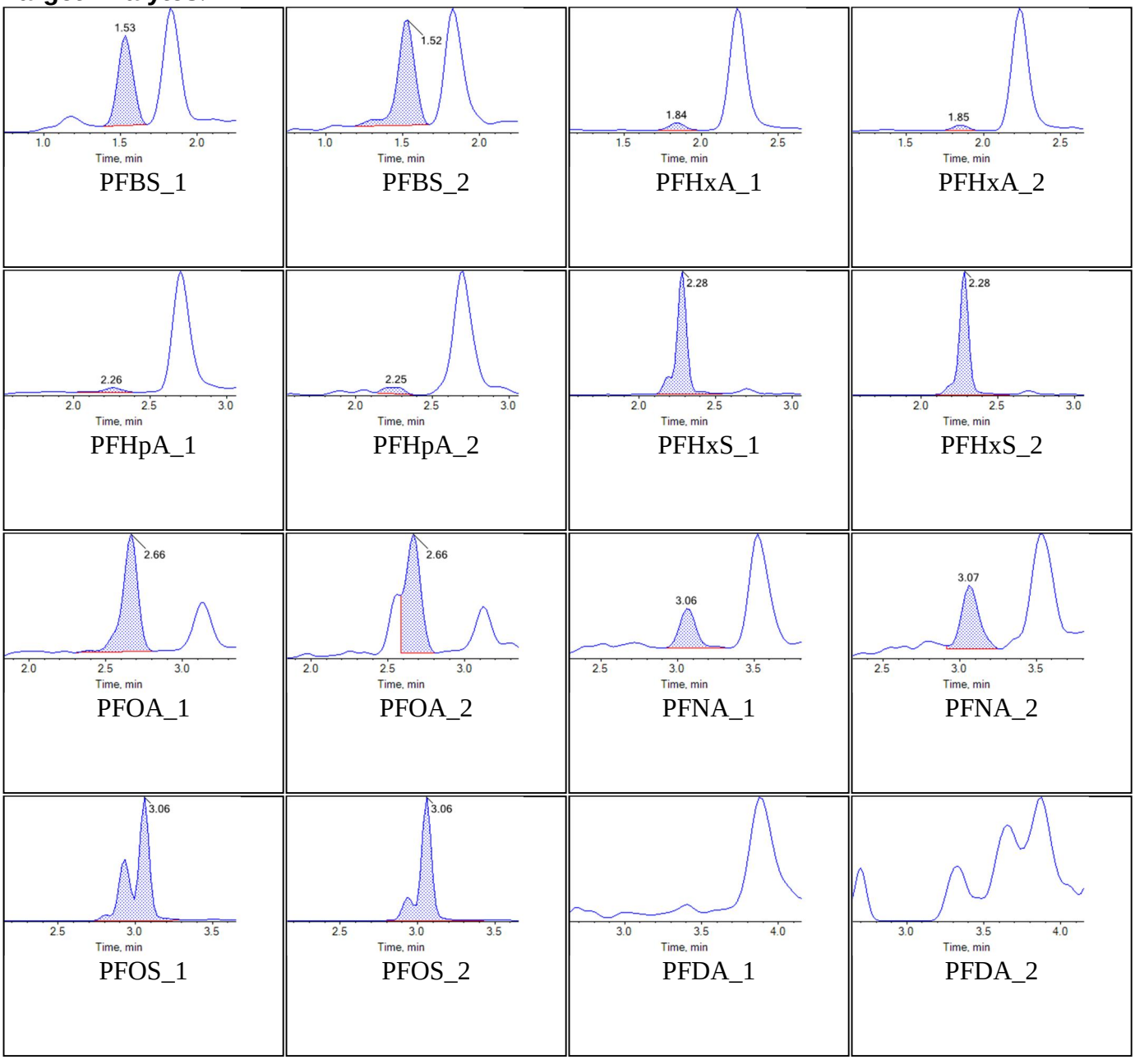

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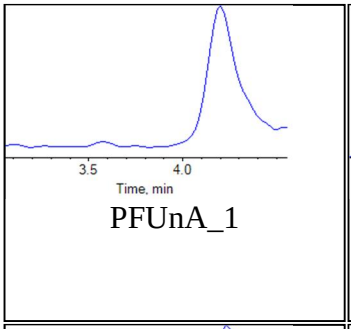

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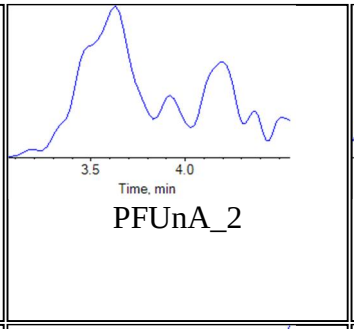

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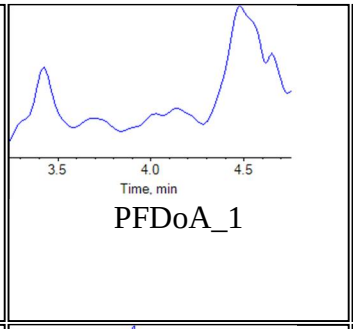

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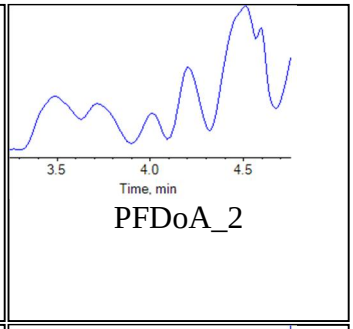

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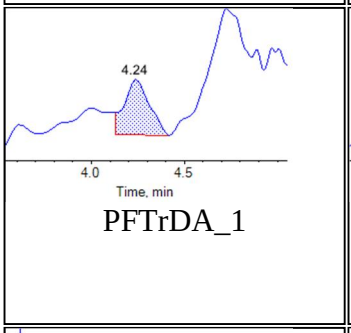

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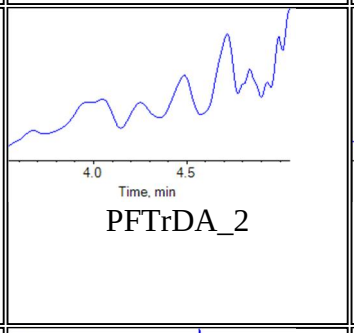

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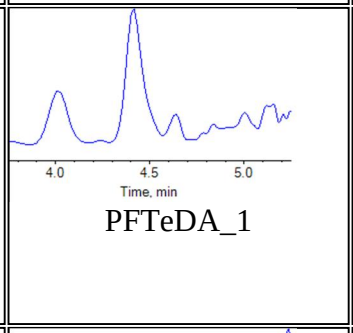

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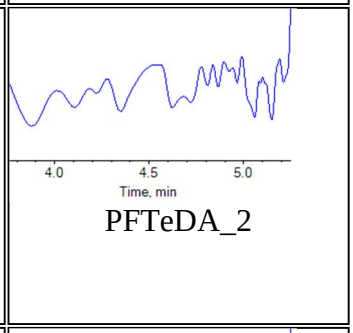

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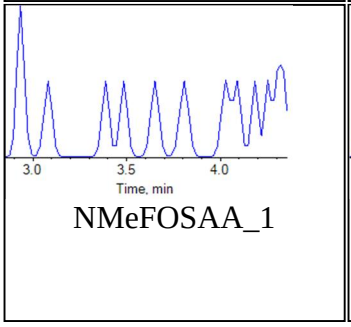

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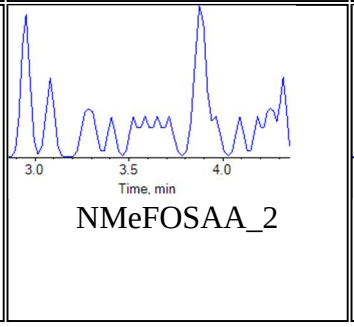

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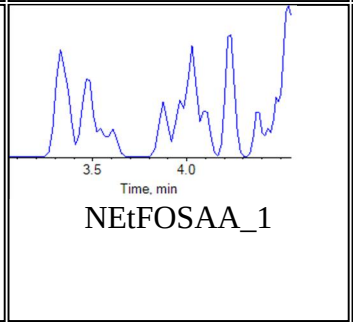

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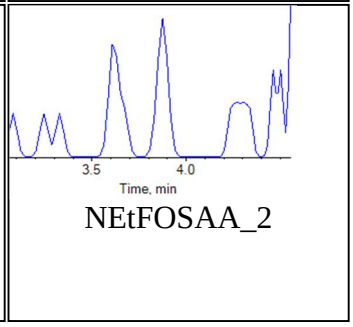

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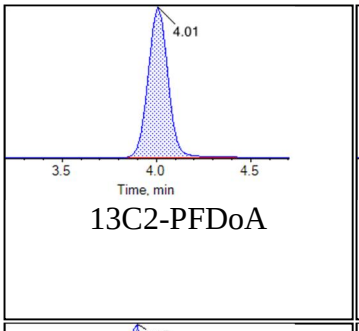

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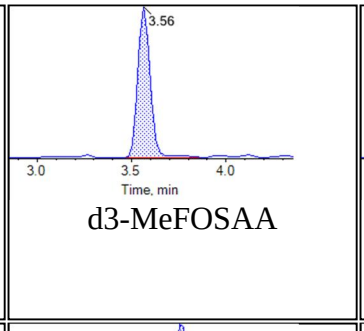
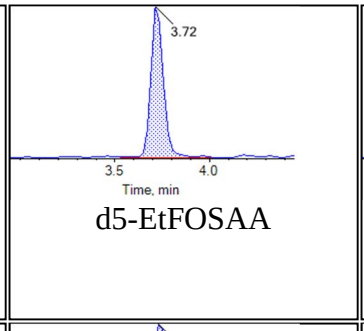
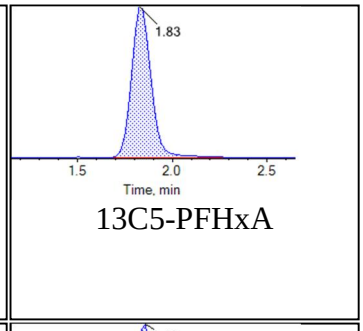


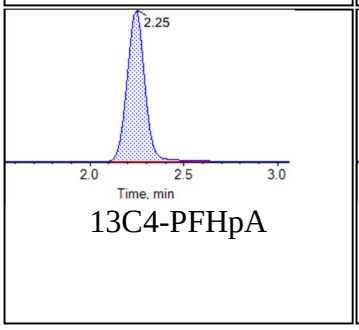
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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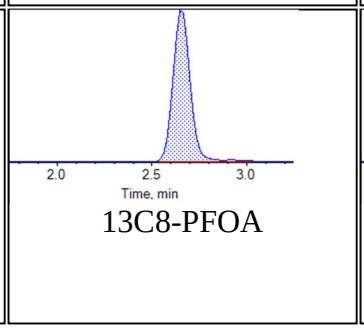

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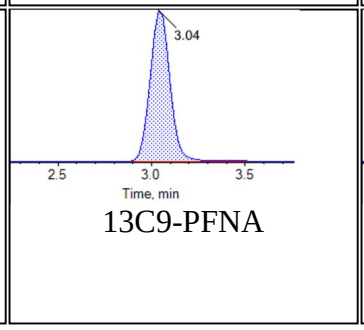

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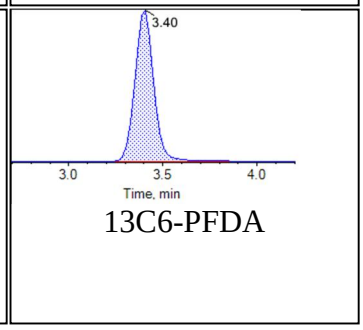

13C6-PFDA

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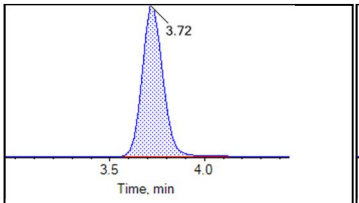
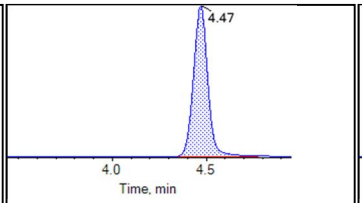
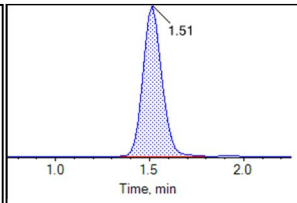



13C7-PFUnA




13C2-PFTeDA

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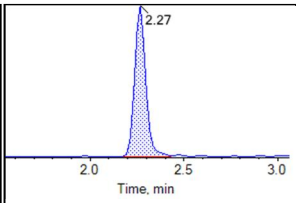


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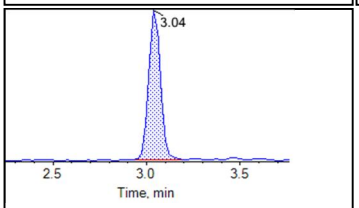


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS(0) | **Injection Vial** | 51 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:43:21 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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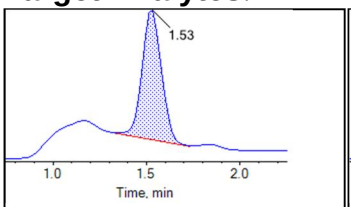

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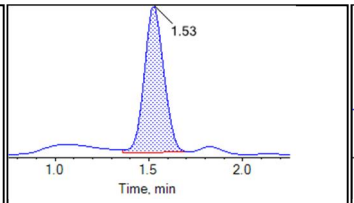
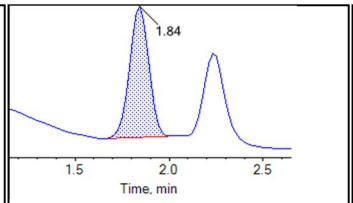
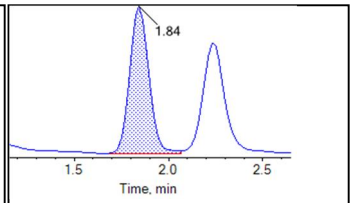


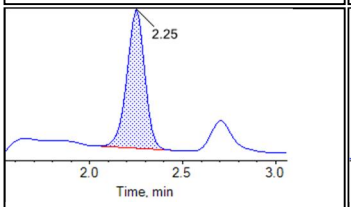
PFBS_2



PFHxA_1



PFHxA_2



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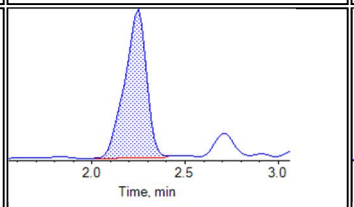

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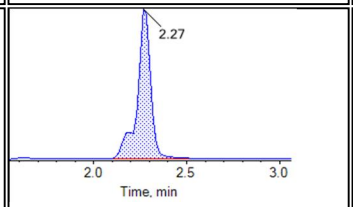

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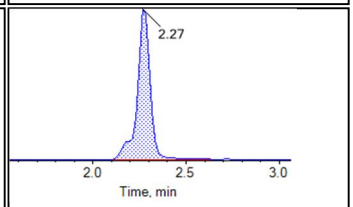

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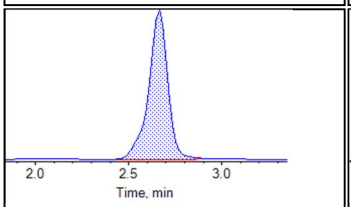

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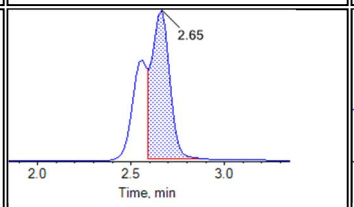

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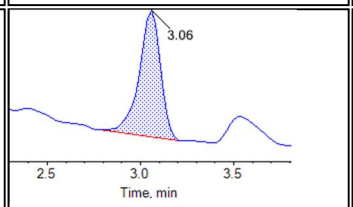

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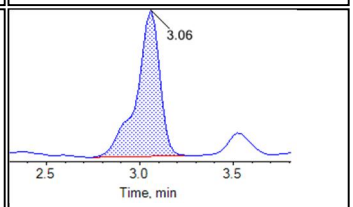

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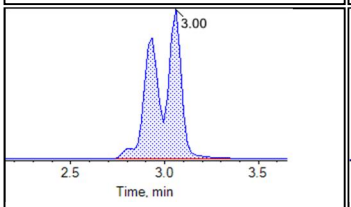

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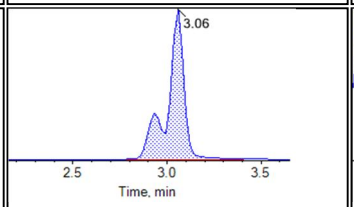

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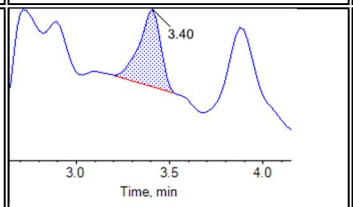

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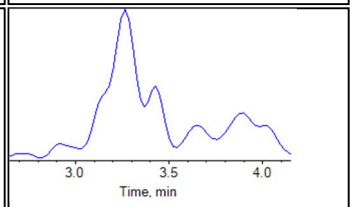

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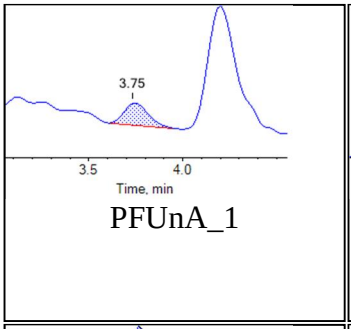

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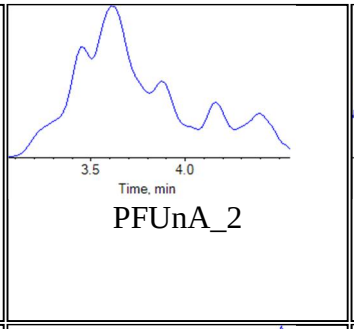

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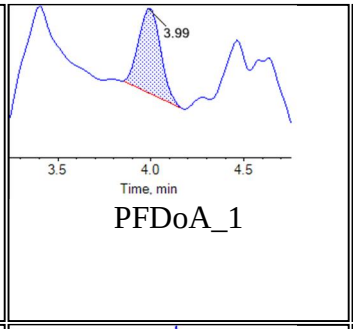

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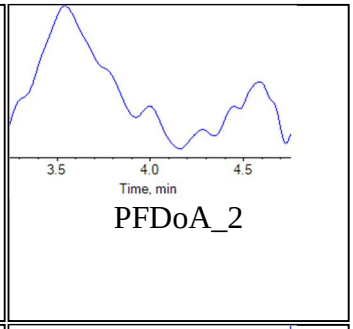

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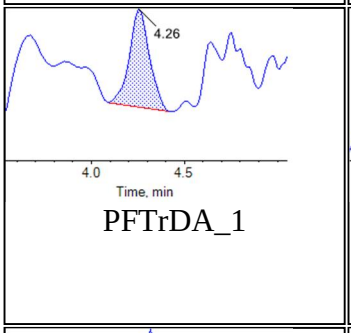

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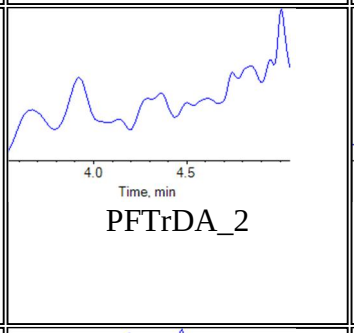

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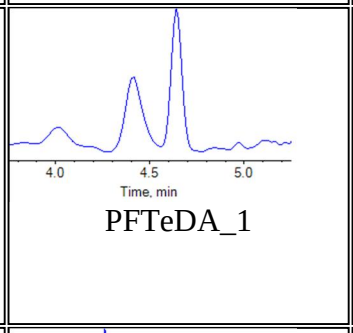

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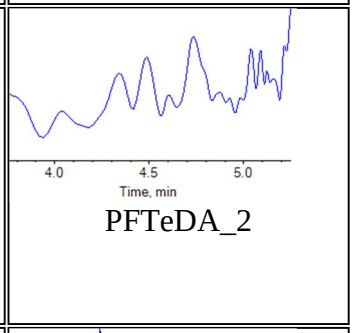

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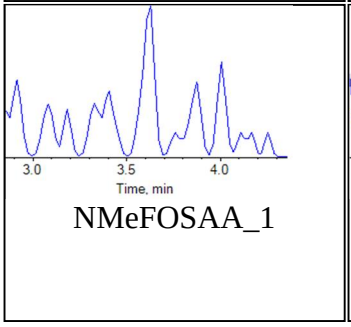

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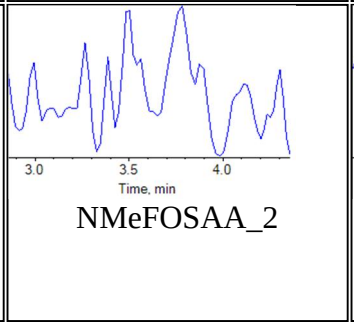

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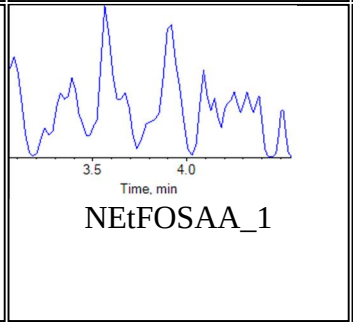

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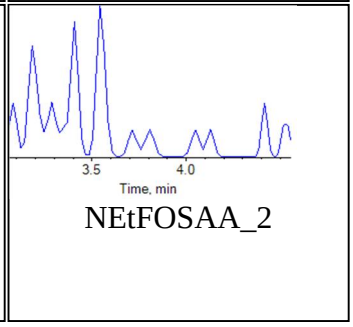

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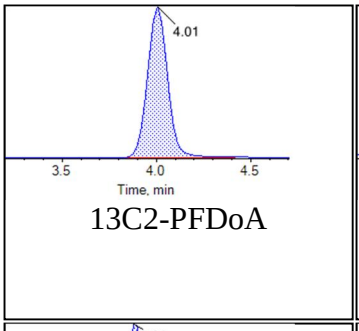

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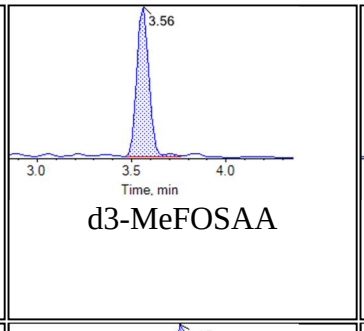

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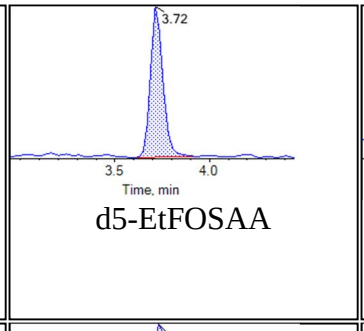

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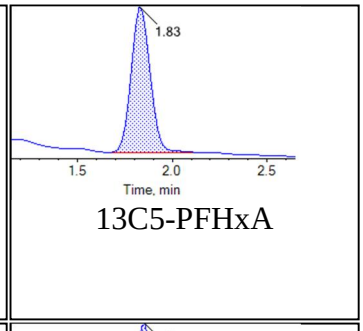

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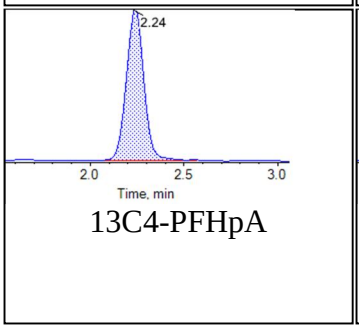

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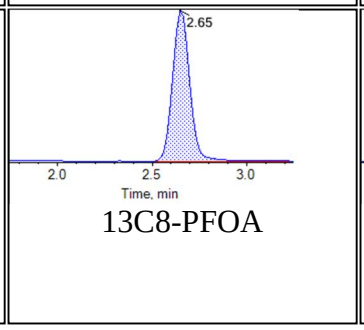

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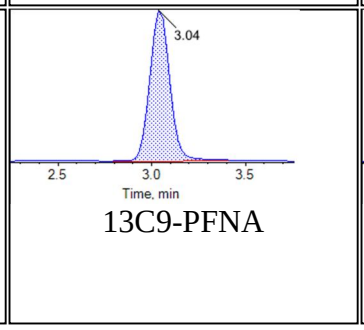

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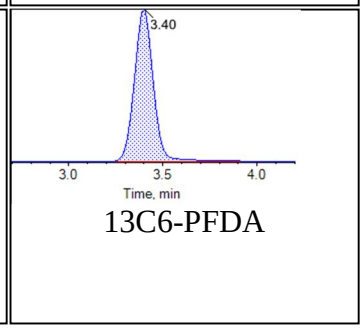

13C6-PFDA

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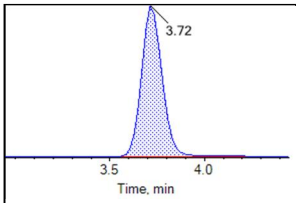


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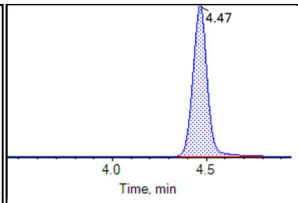


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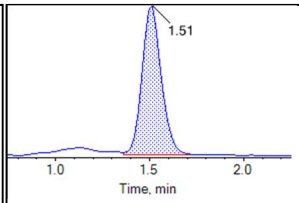


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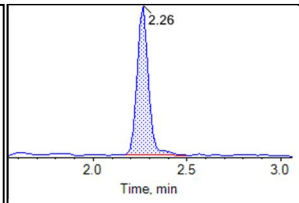


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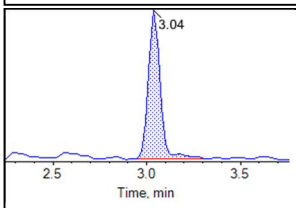


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS-D(3) | **Injection Vial** | 52 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:54:13 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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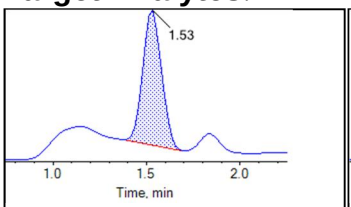

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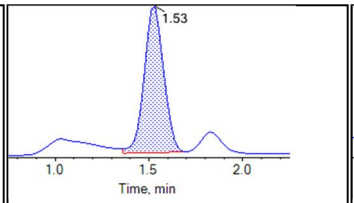

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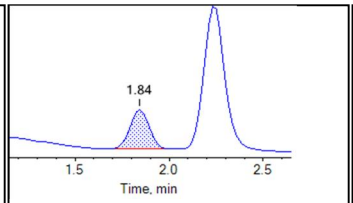

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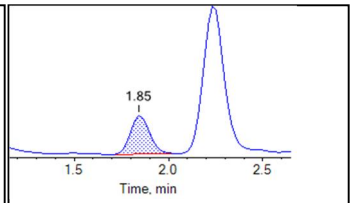

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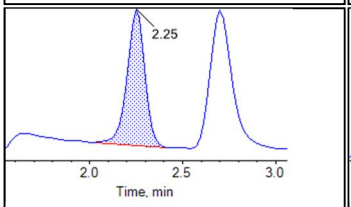

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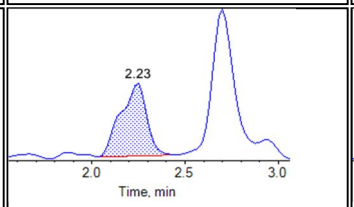

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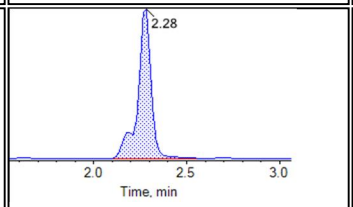

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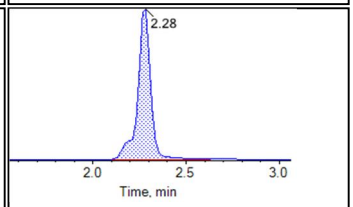

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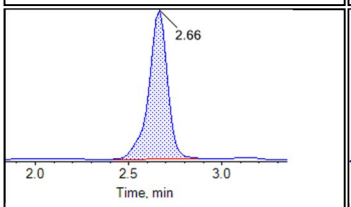

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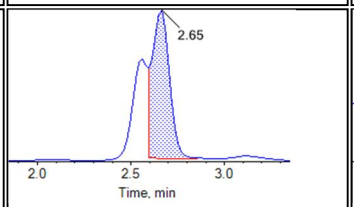

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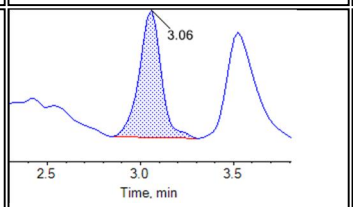

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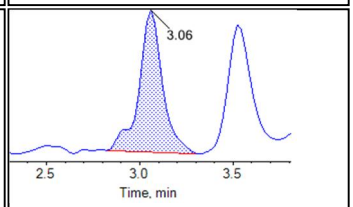

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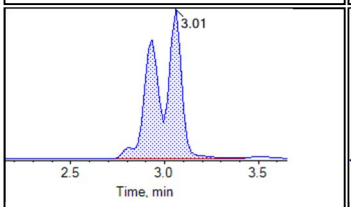

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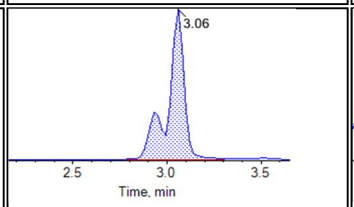

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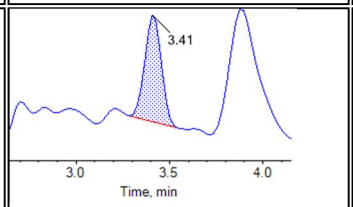

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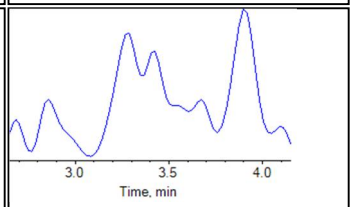

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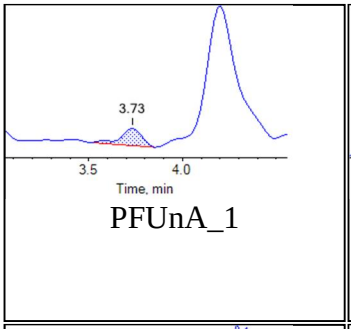

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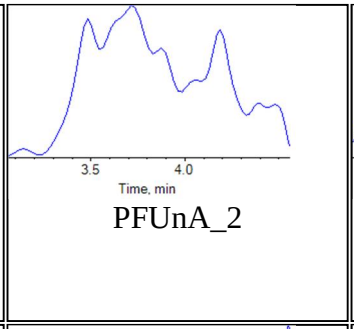

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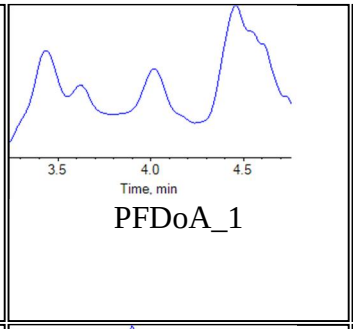

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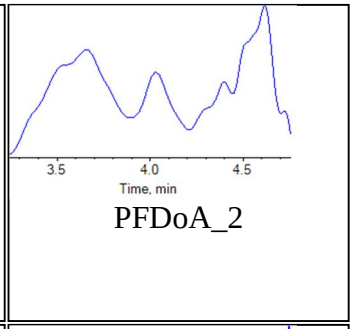

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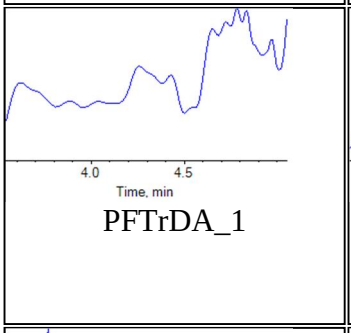

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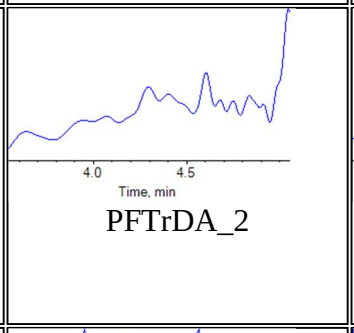

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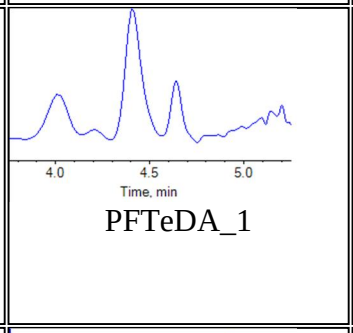

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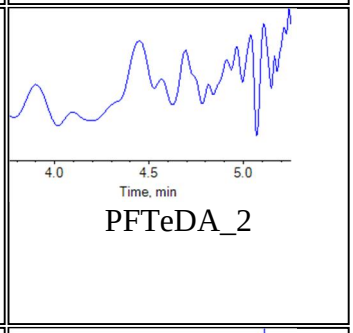

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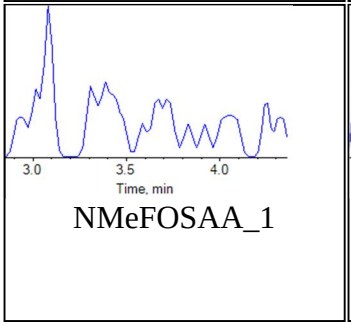

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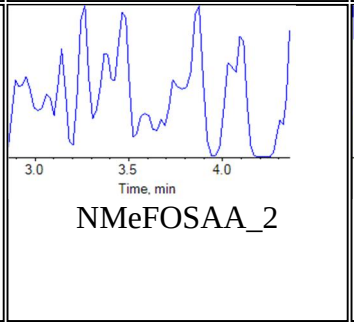

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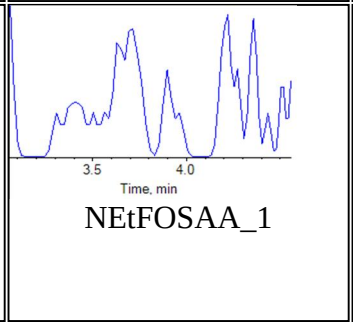

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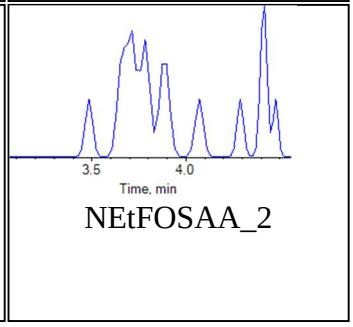

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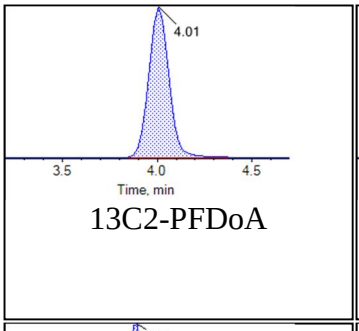

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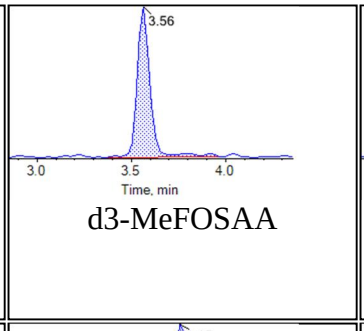

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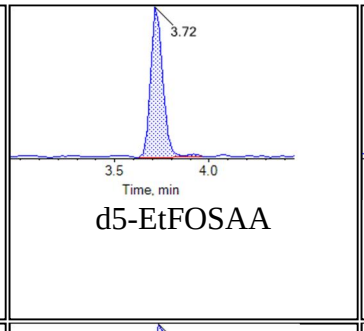

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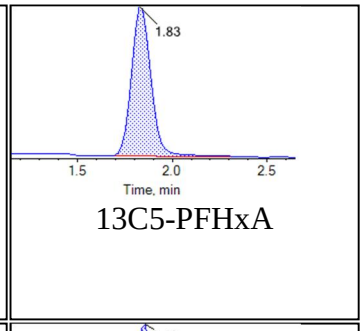

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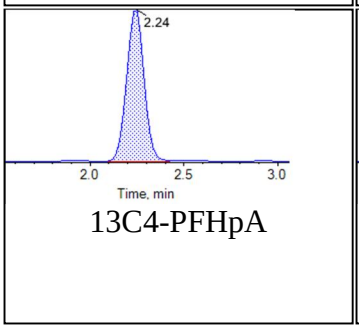

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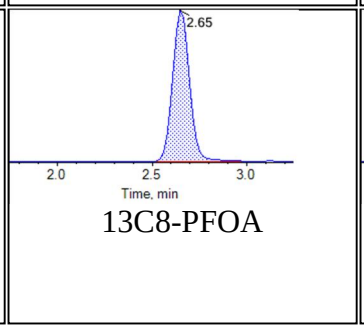

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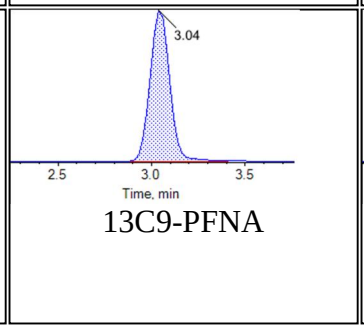

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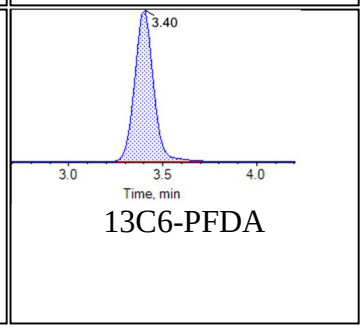

13C6-PFDA

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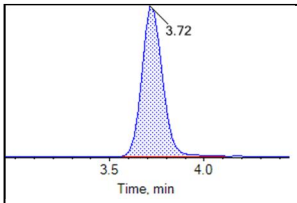
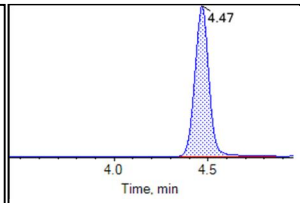



13C7-PFUnA

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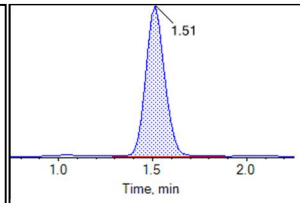


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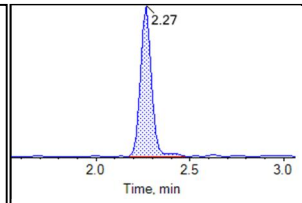


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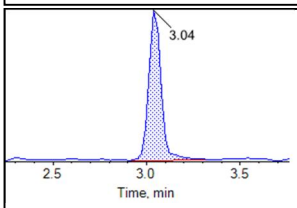


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS(0) | **Injection Vial** | 53 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:05:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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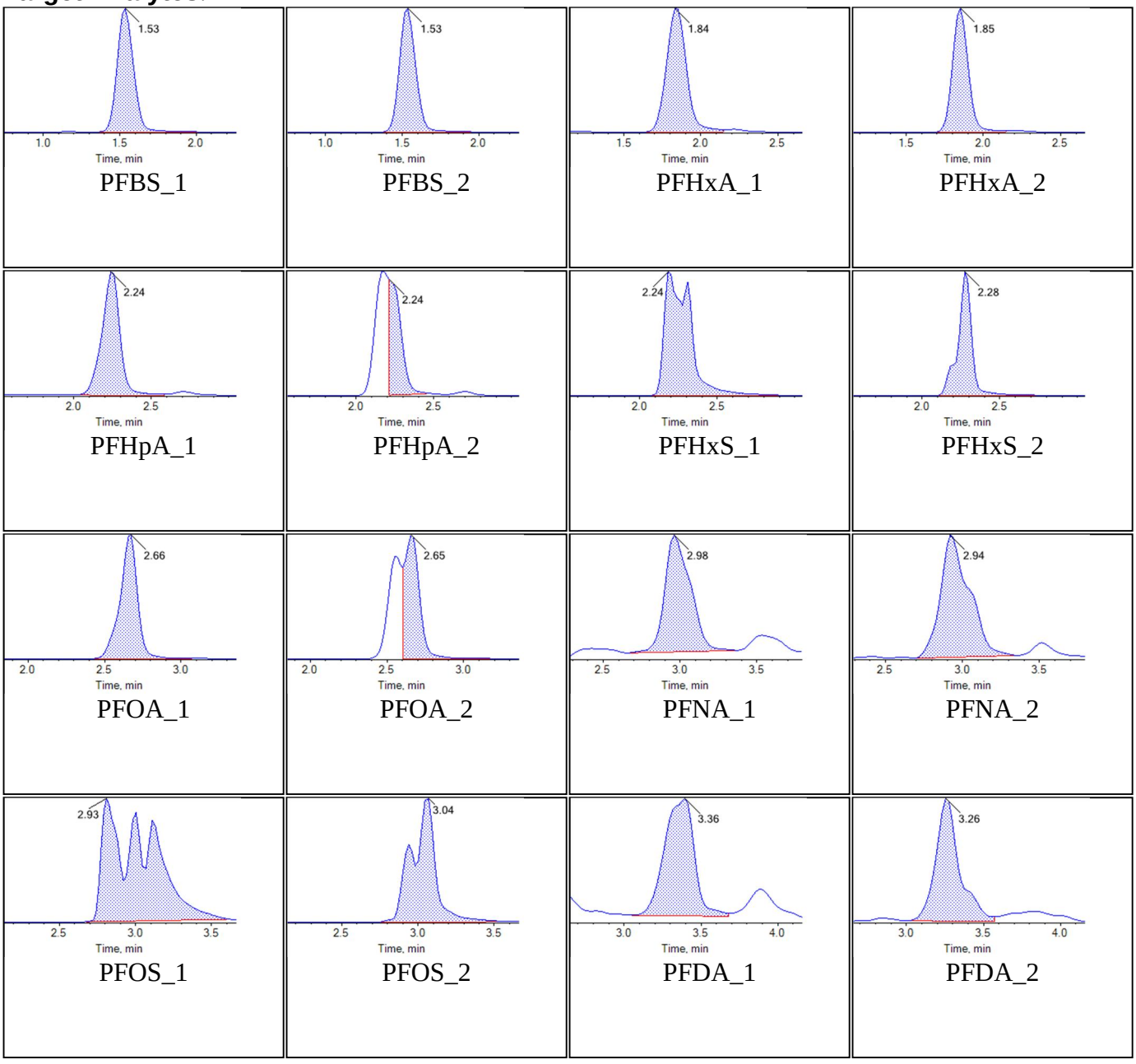

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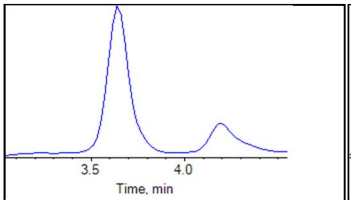

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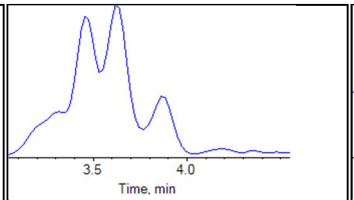

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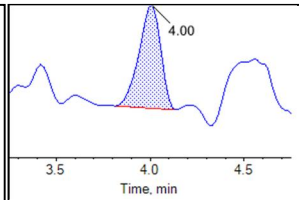

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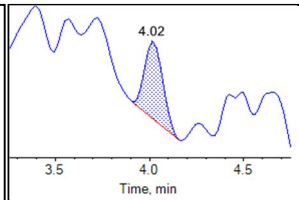

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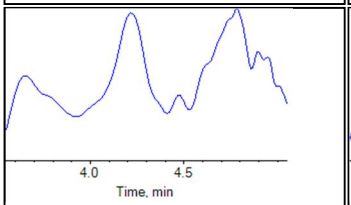

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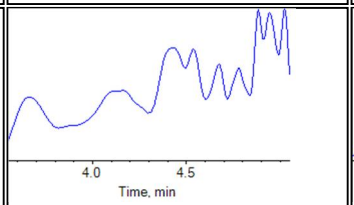

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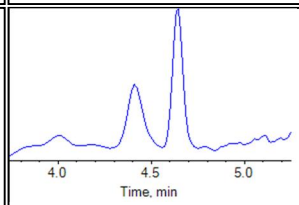

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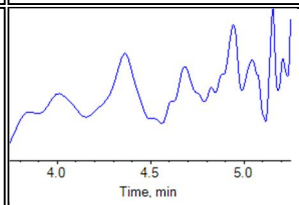

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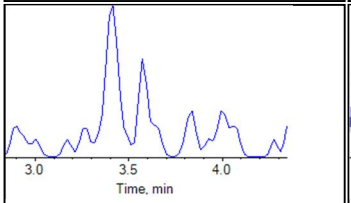

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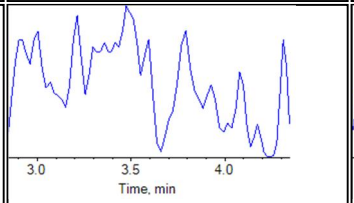

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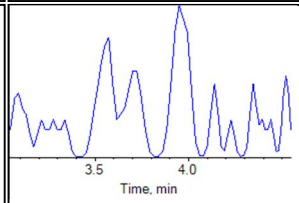

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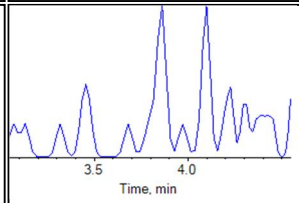

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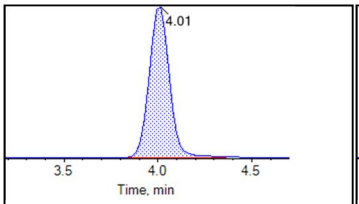

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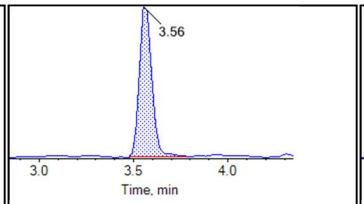

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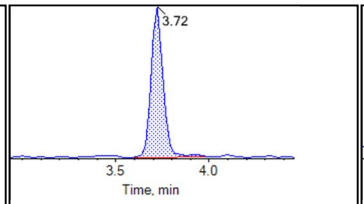
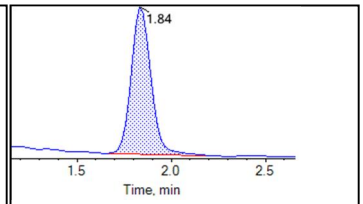


d5-EtFOSAA



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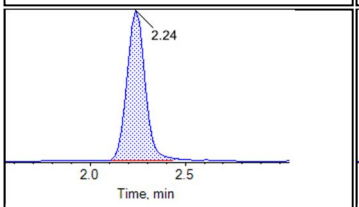

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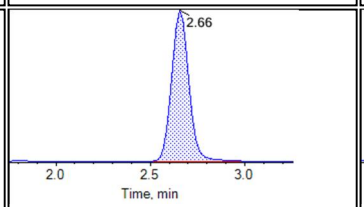

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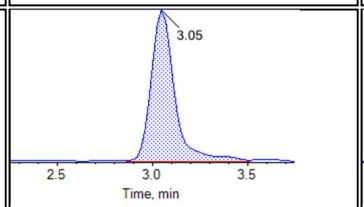

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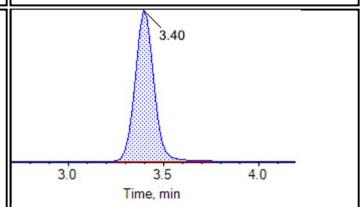

13C6-PFDA

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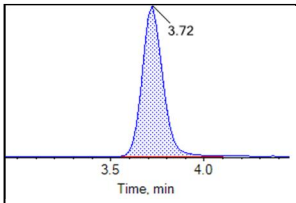


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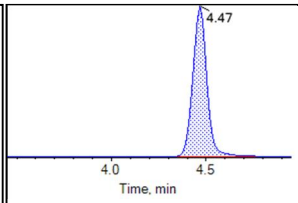


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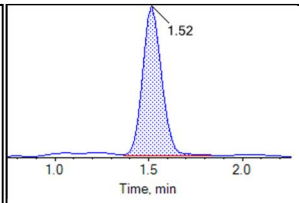


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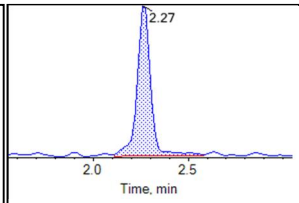


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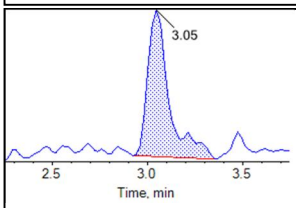


13C8-PFOS

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Chromatogram Report

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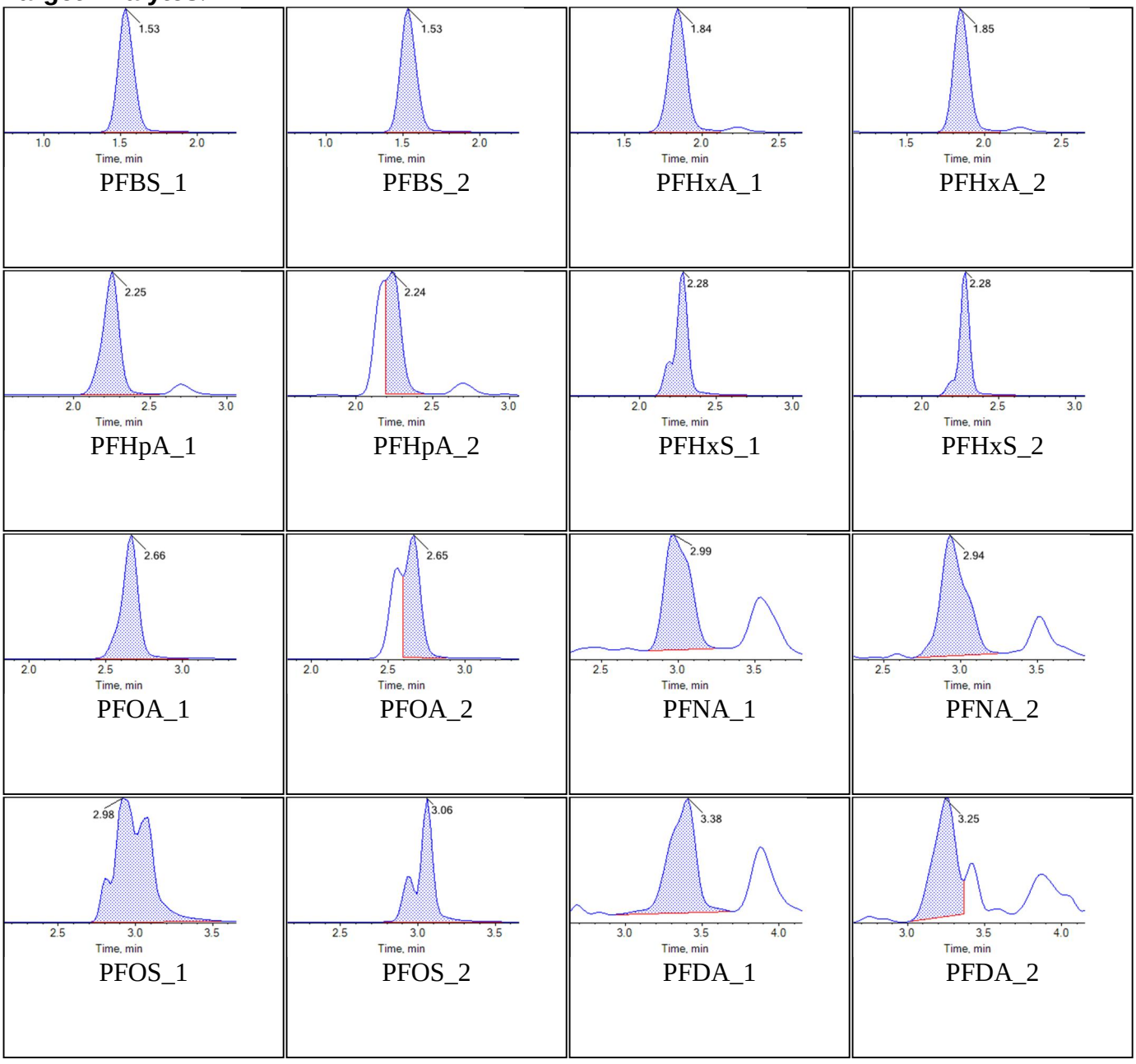
| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(3) | **Injection Vial** | 54 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:15:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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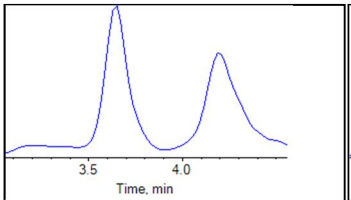

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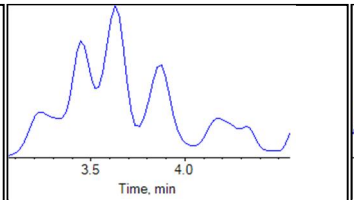

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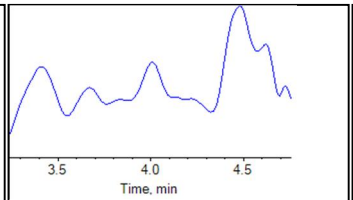

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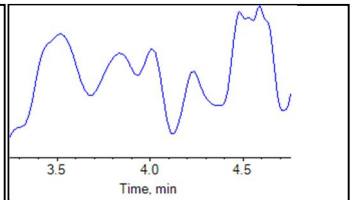

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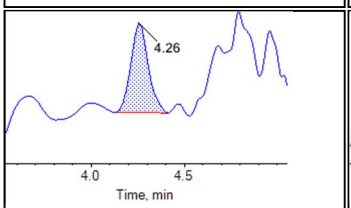

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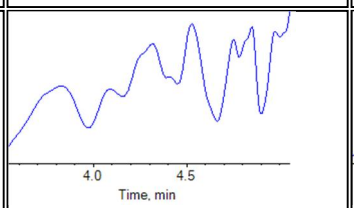

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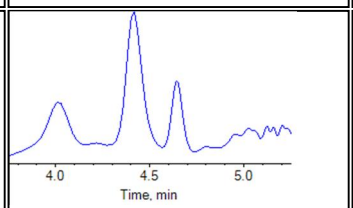

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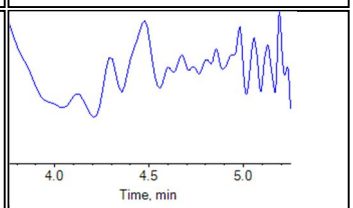

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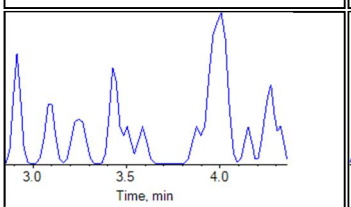

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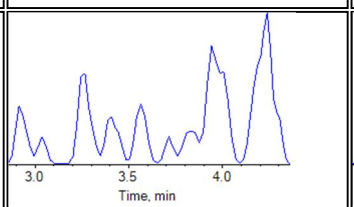

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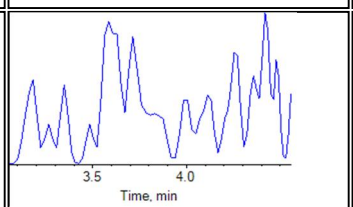

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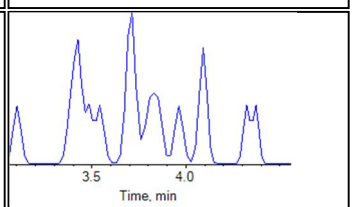

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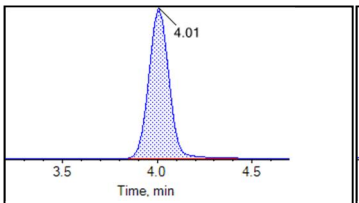

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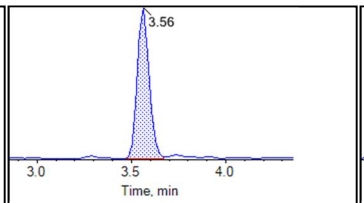

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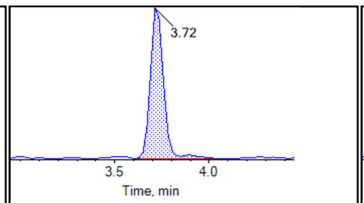

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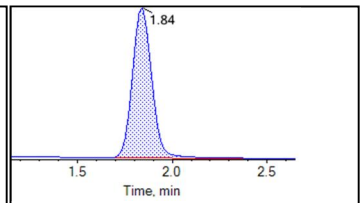

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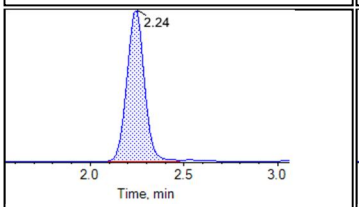

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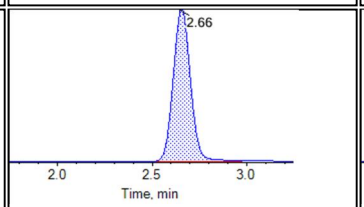

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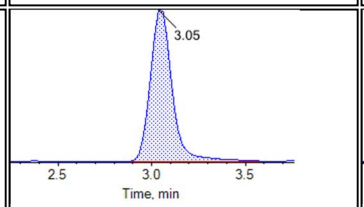

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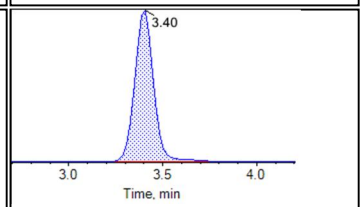

13C6-PFDA

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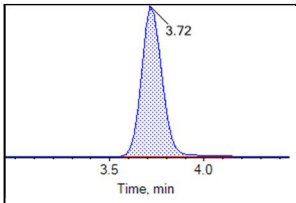


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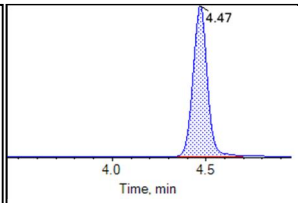


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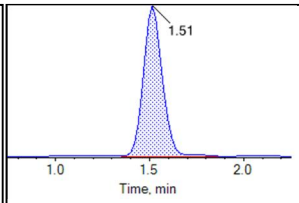


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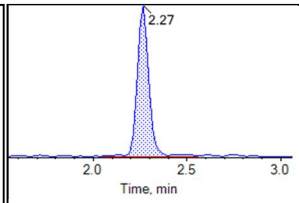


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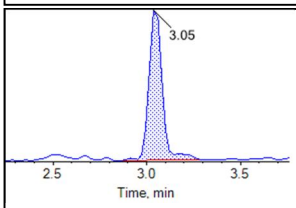


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(5) | **Injection Vial** | 1 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:26:49 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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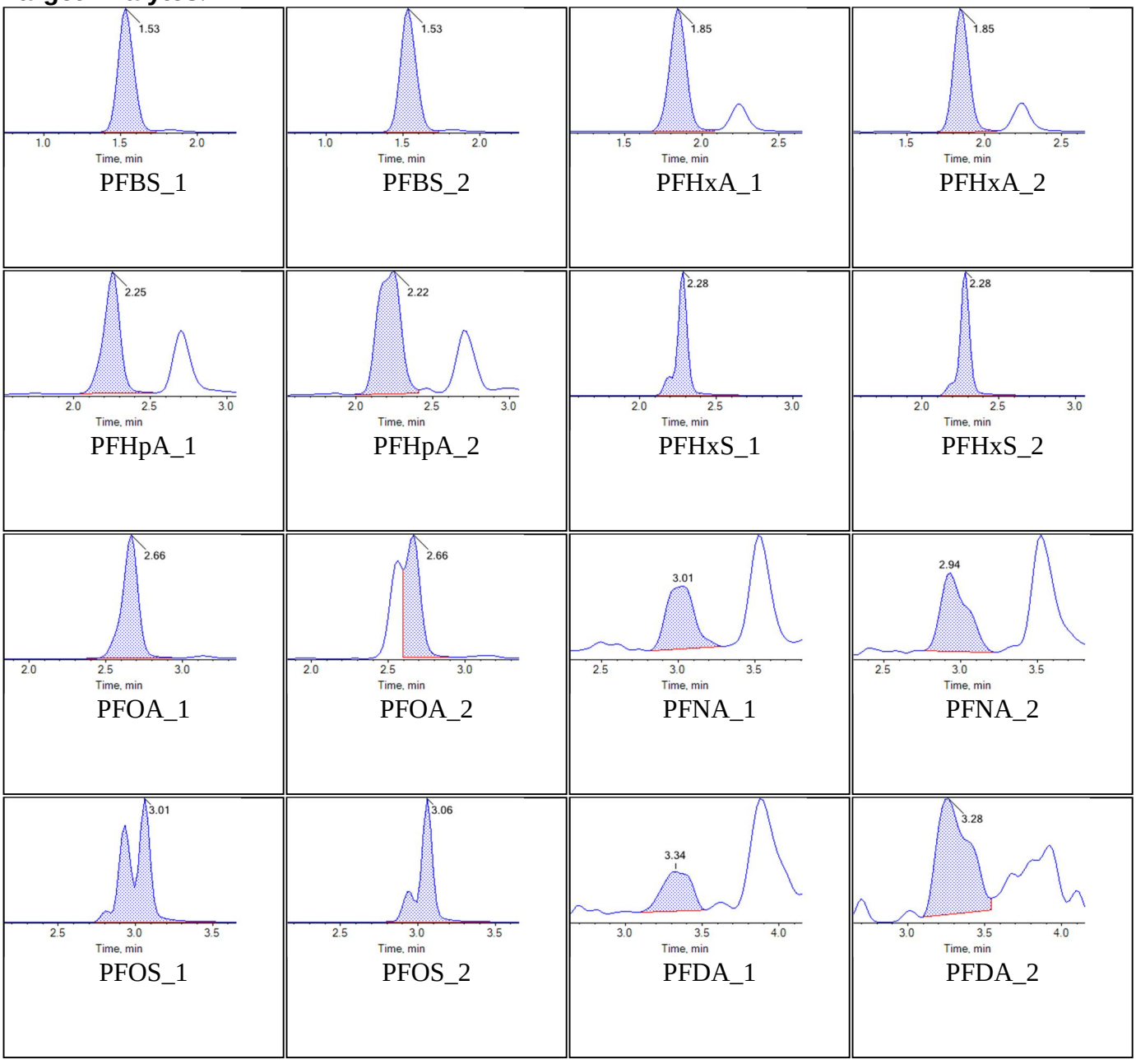

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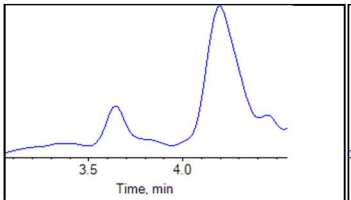

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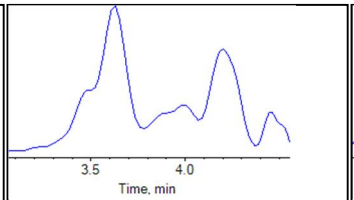

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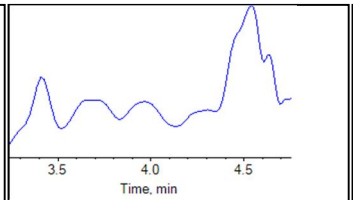

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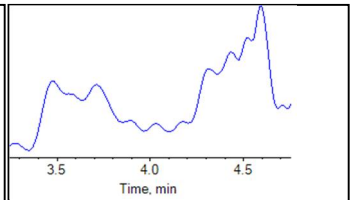

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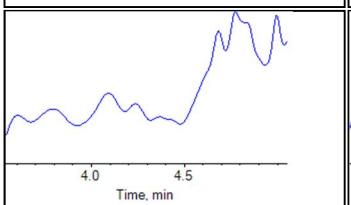

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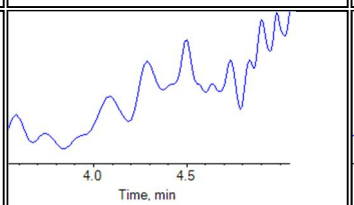

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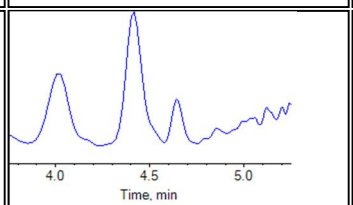

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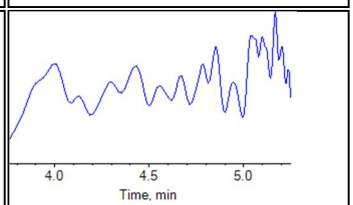

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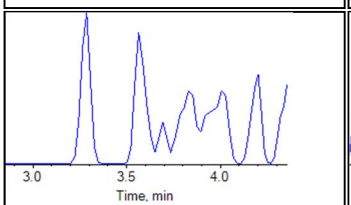

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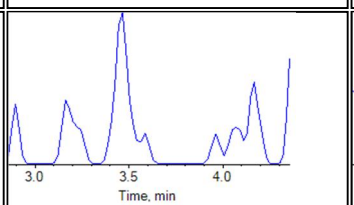

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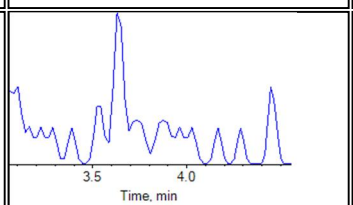

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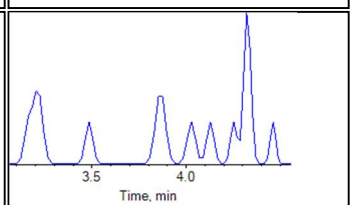

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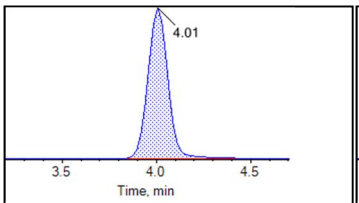

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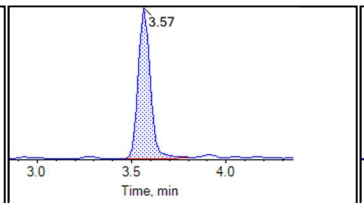
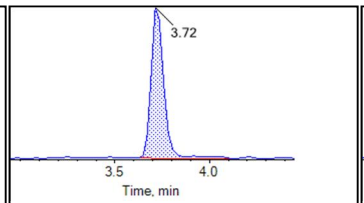


d3-MeFOSAA



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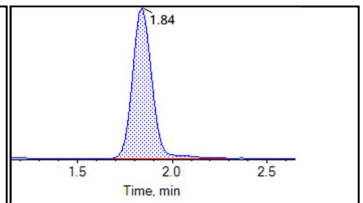

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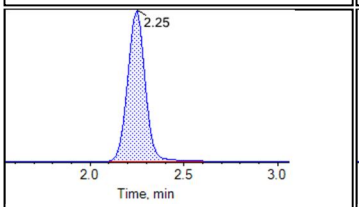

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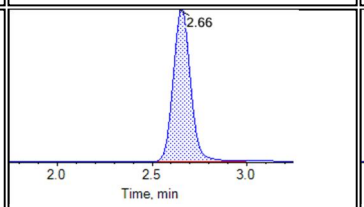

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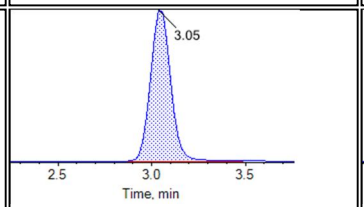

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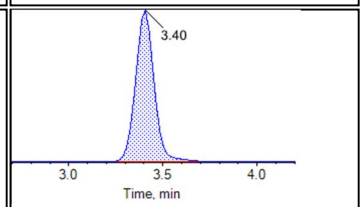

13C6-PFDA

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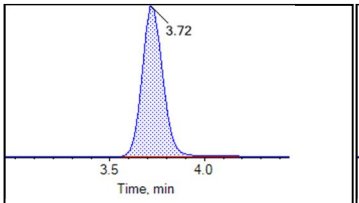


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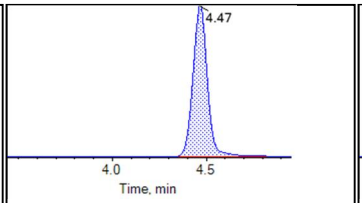


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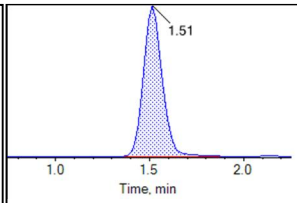


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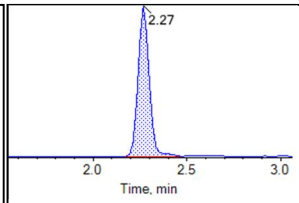
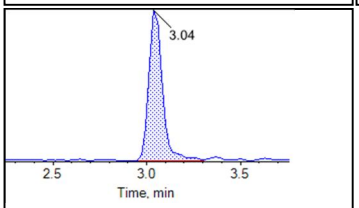



13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(7) | **Injection Vial** | 2 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:37:41 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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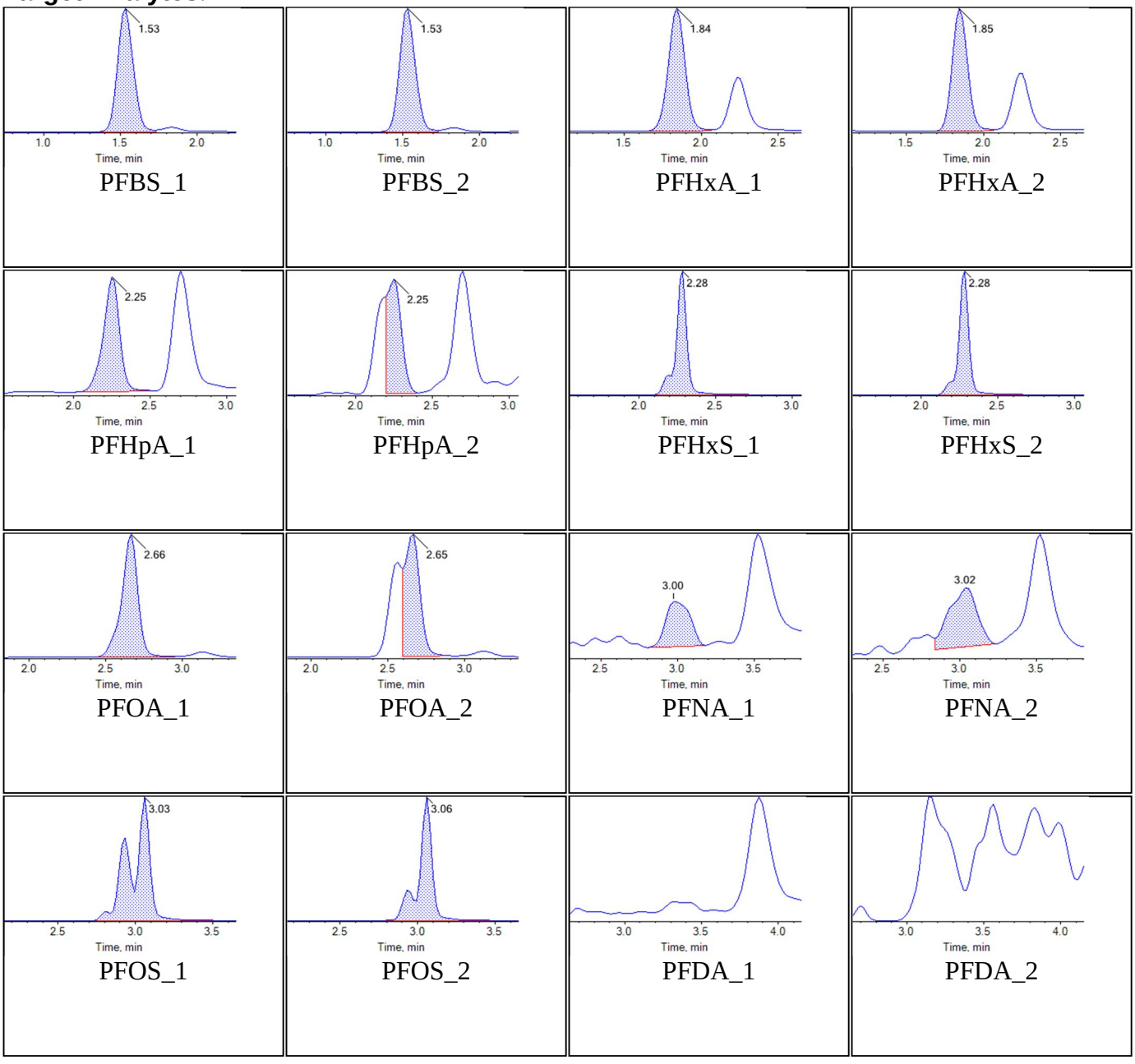

BATTELLE

Chromatogram Report

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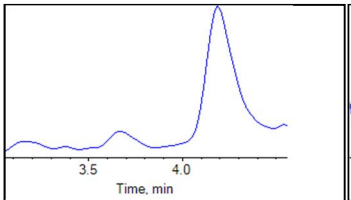

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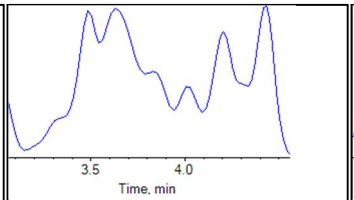

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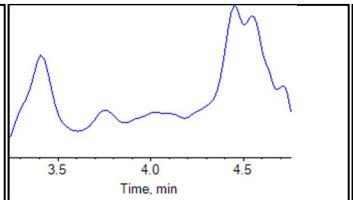
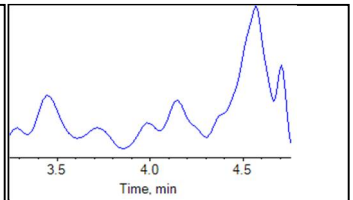
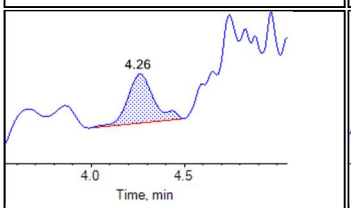


PFDoA_1



PFDoA_2



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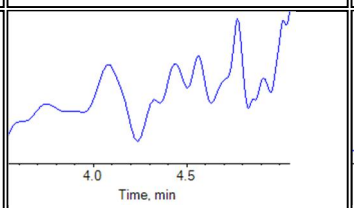

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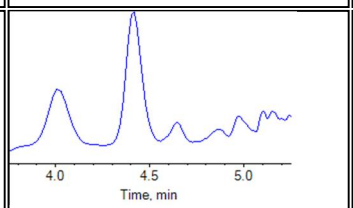

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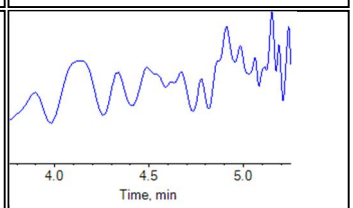

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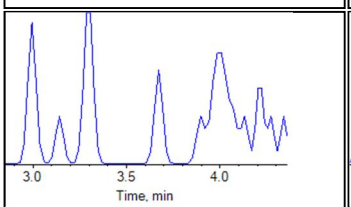

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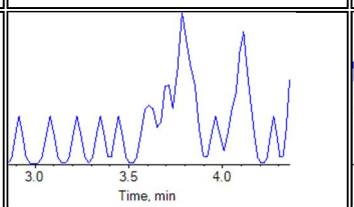

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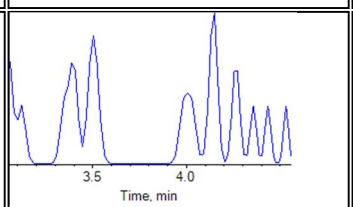

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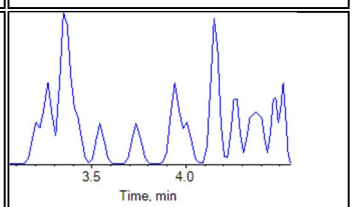

NEtFOSAA_2

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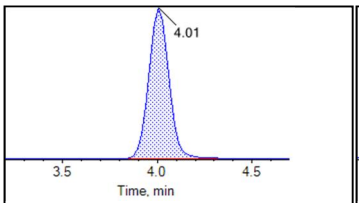

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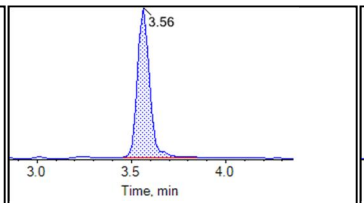

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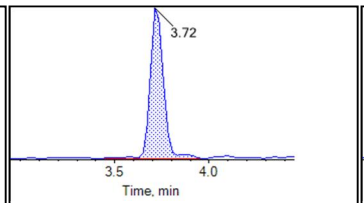
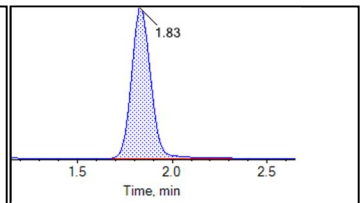


d5-EtFOSAA



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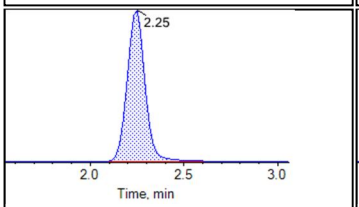

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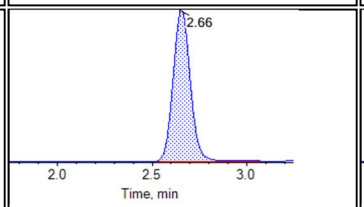

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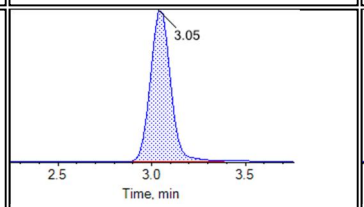
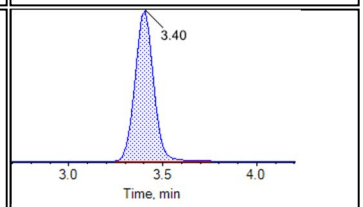


13C9-PFNA



13C6-PFDA

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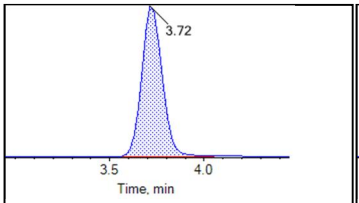
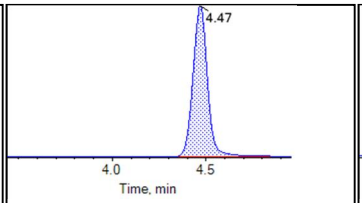



13C7-PFUnA

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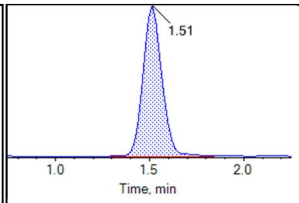
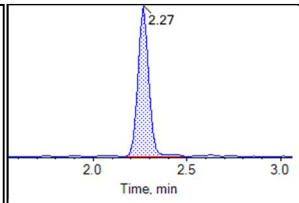



13C3-PFBS

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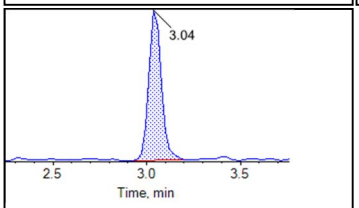


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(9) | **Injection Vial** | 3 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:48:34 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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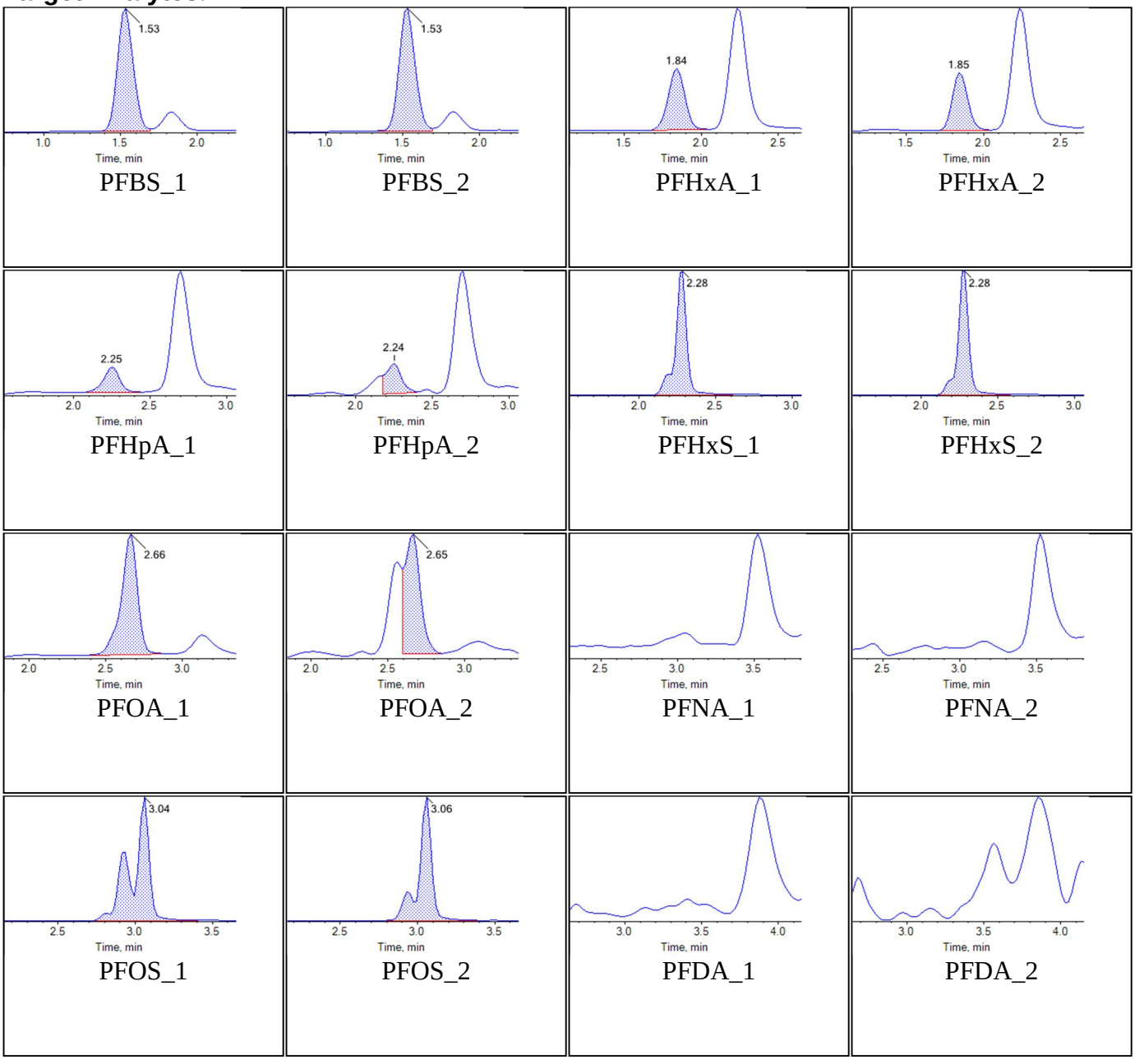

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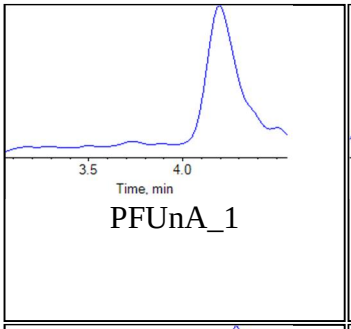

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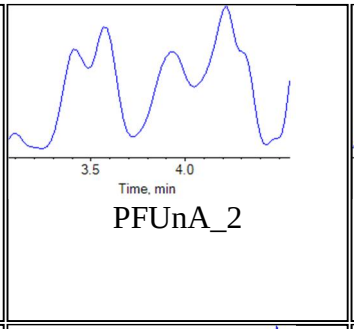
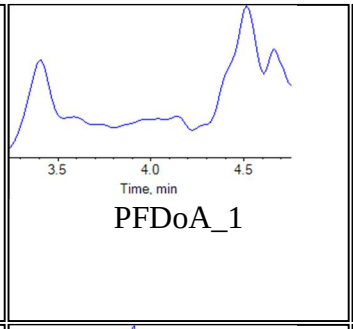
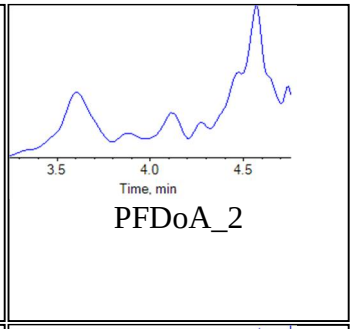


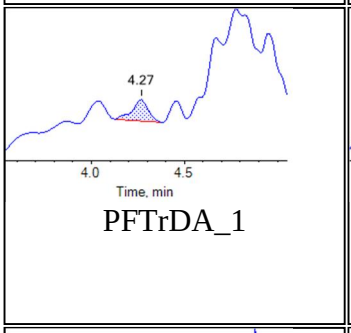
PFUnA_2



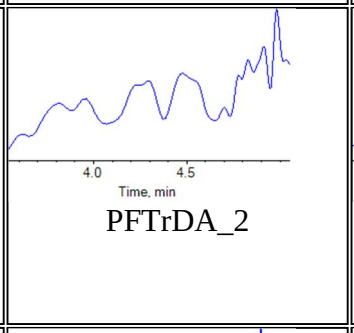
PFDoA_1



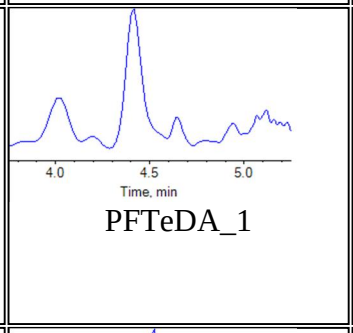
PFDoA_2



PFTrDA_1



PFTrDA_2



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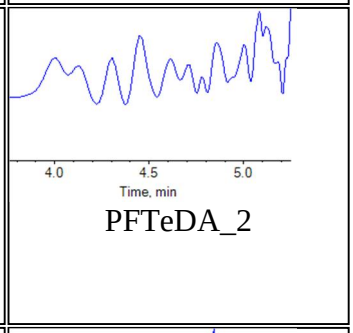

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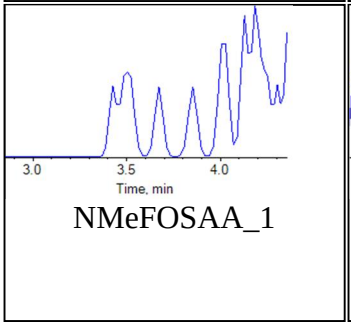

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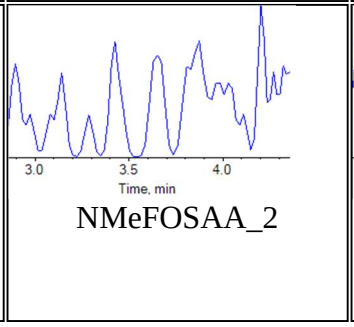

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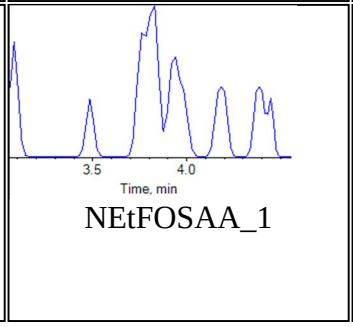
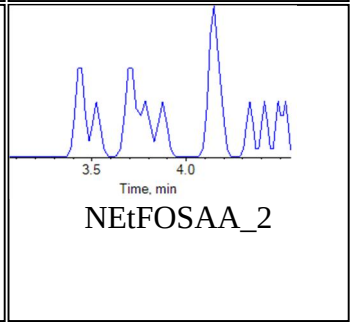


NEtFOSAA_1



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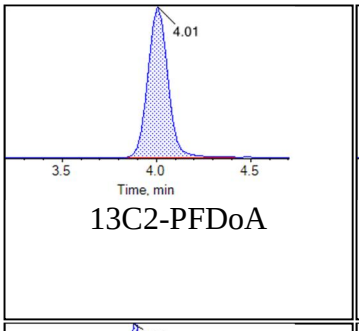

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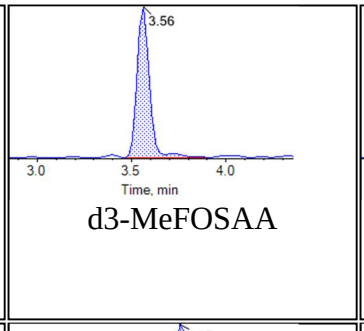
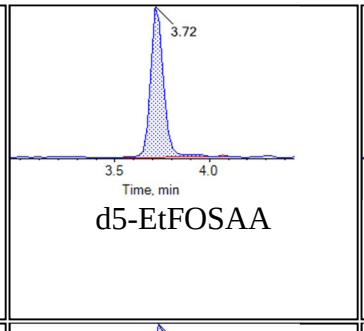
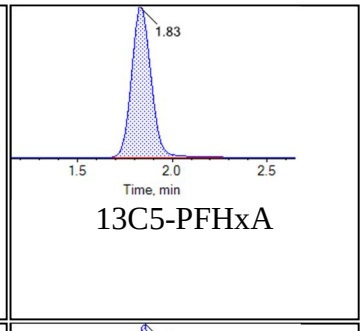


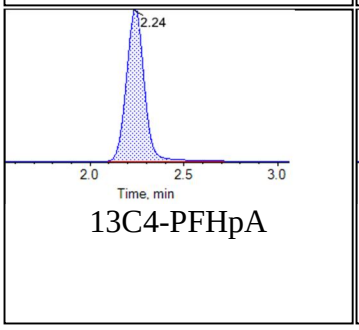
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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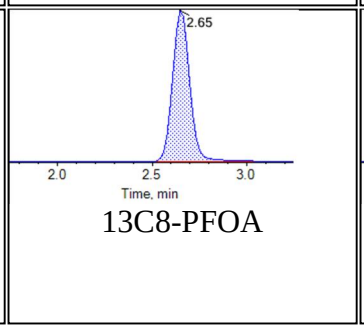

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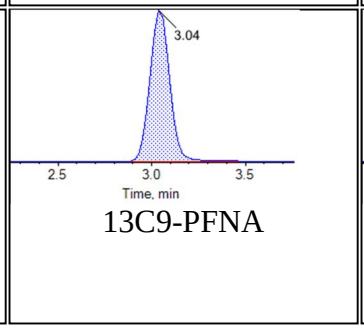

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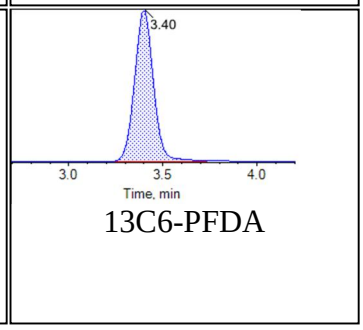

13C6-PFDA

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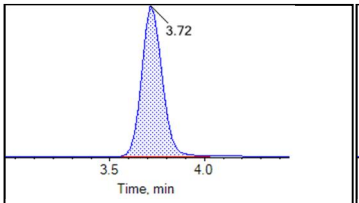
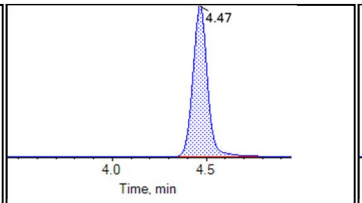
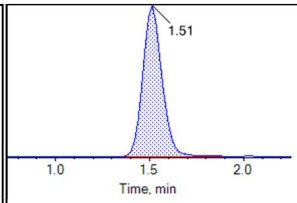


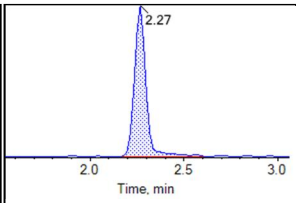

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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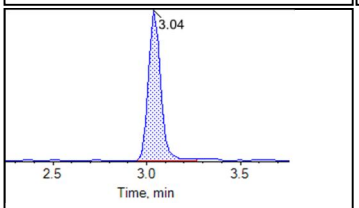


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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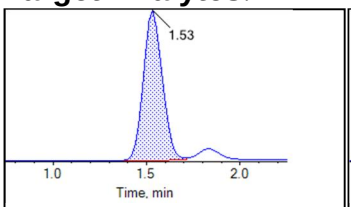

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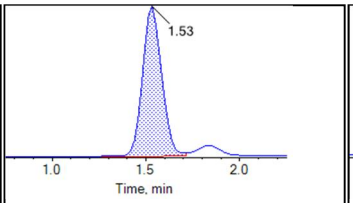

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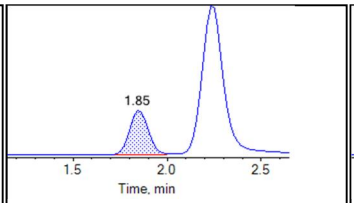

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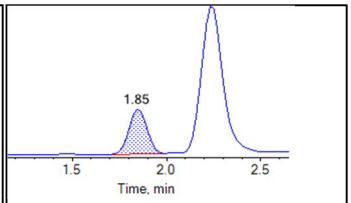

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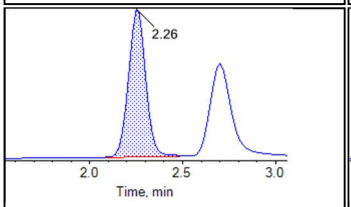

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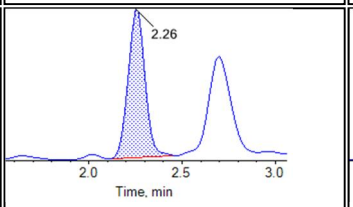

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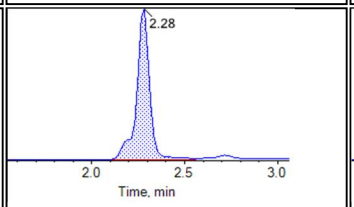

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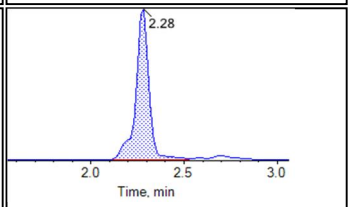

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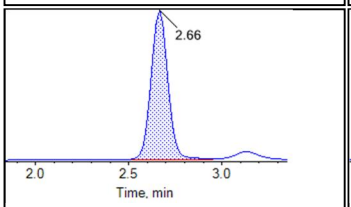

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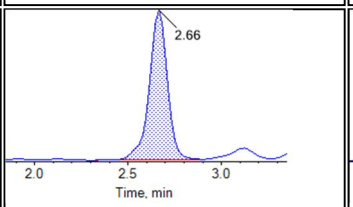

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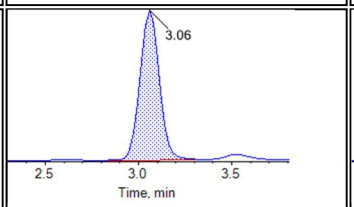

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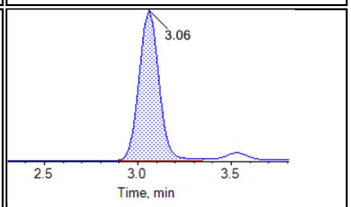

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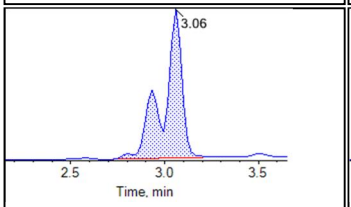

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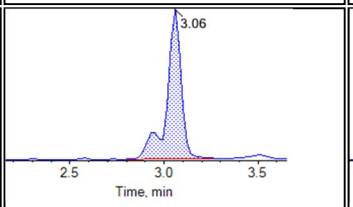

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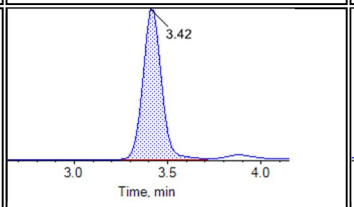

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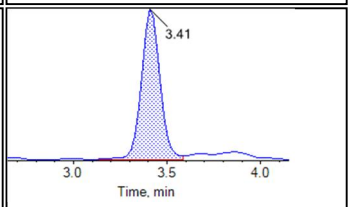

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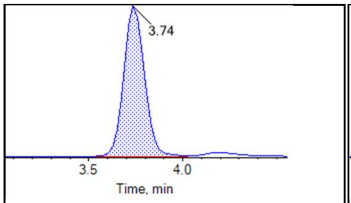

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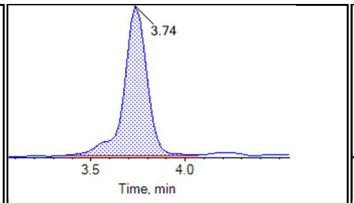

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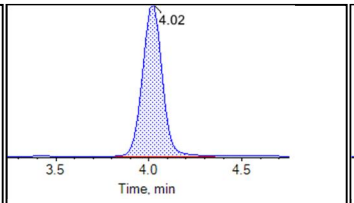

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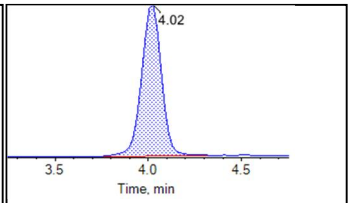

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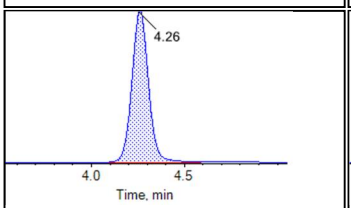

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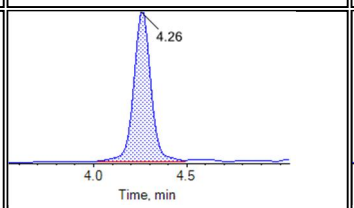

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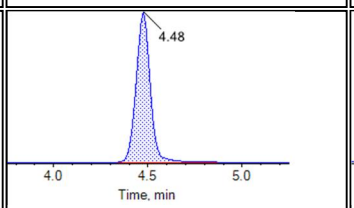

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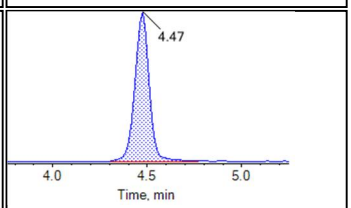

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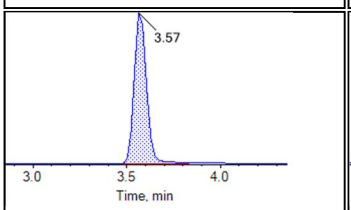

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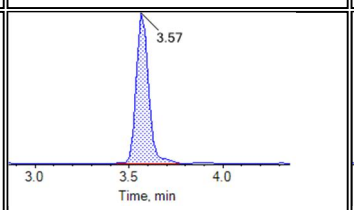

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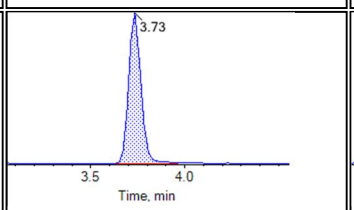

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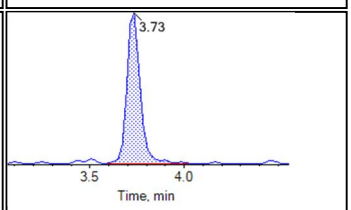

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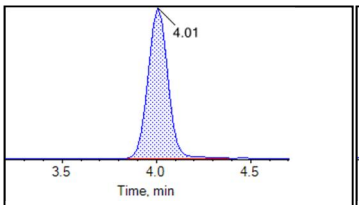

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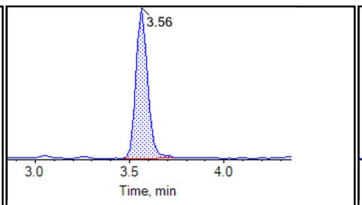

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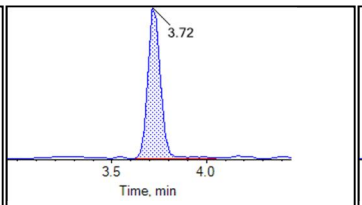

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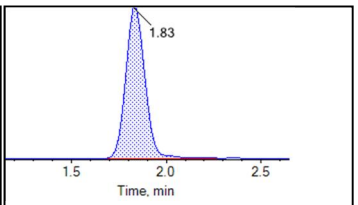

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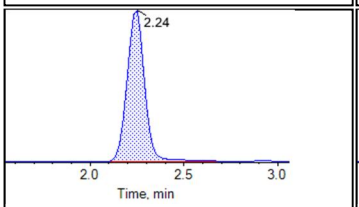

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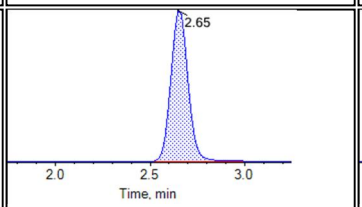
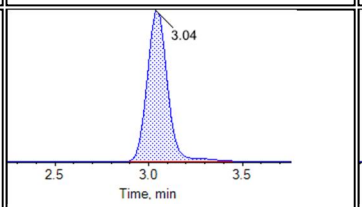


13C8-PFOA



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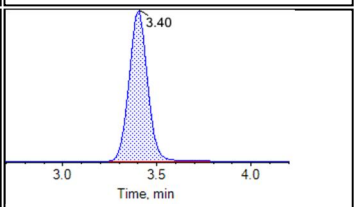

13C6-PFDA

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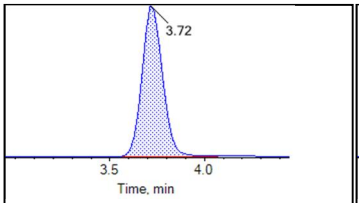
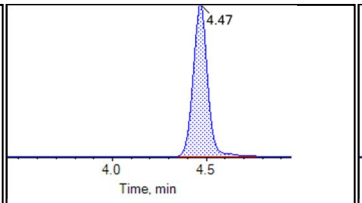
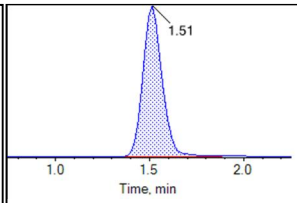


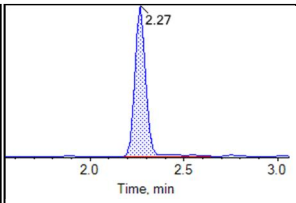

13C7-PFUnA



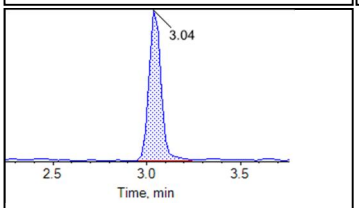

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS(0)) | **Injection Vial** | 6 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:21:11 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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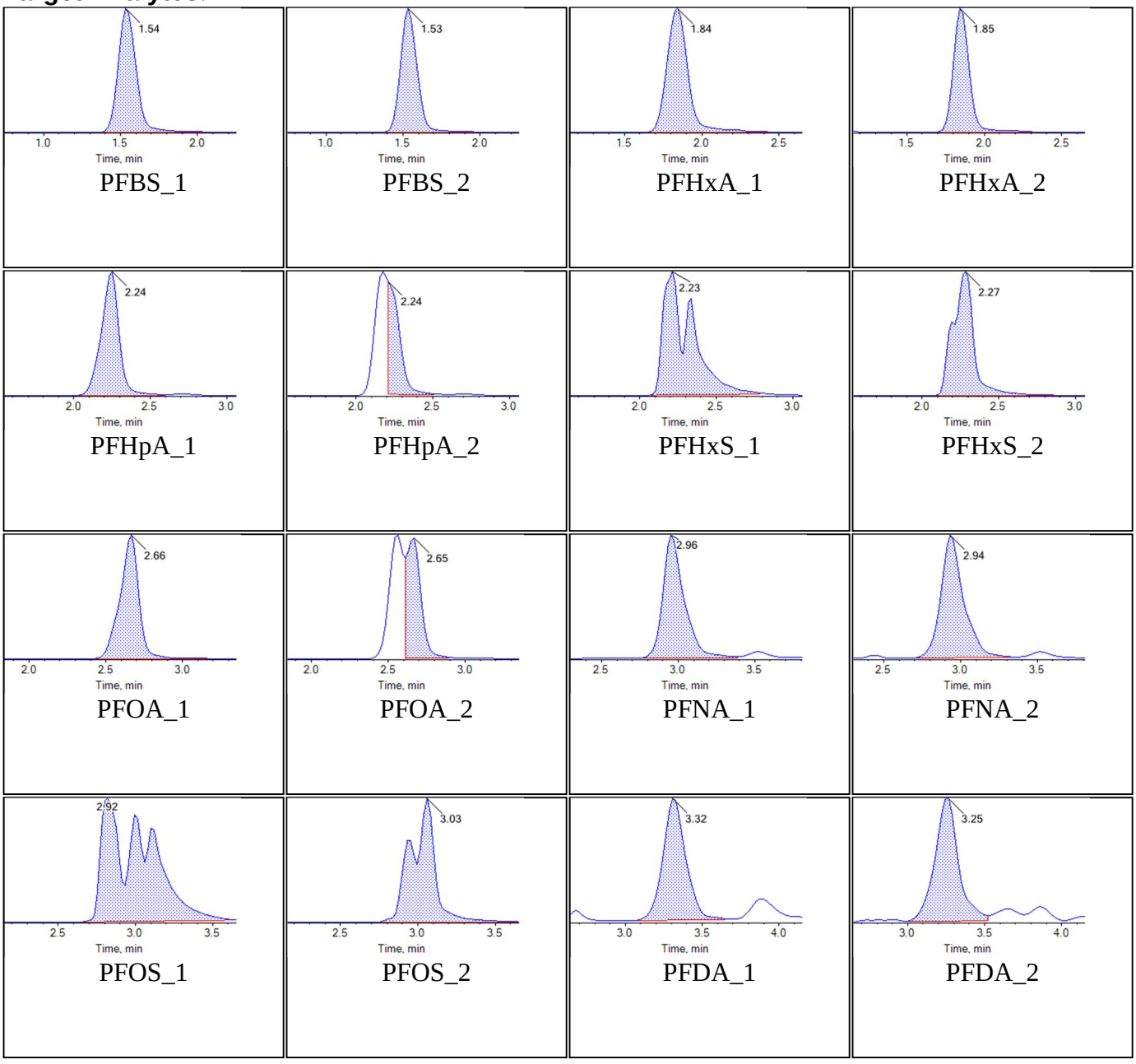

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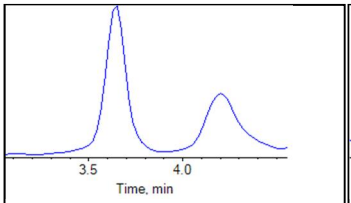

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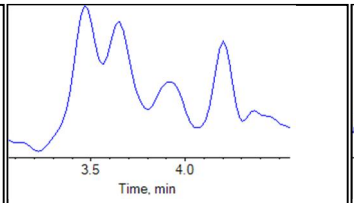

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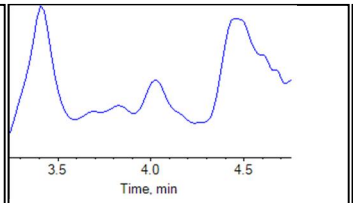

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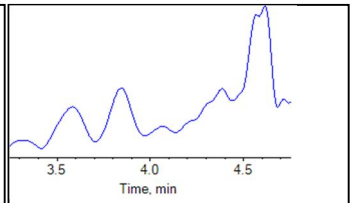

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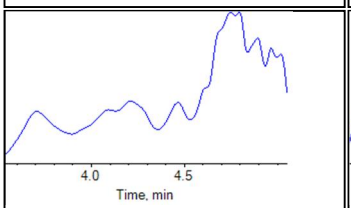

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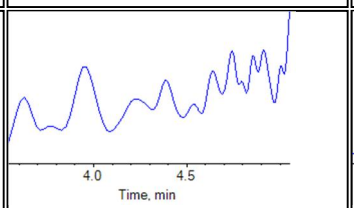
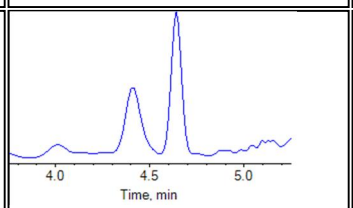


PFTrDA_2



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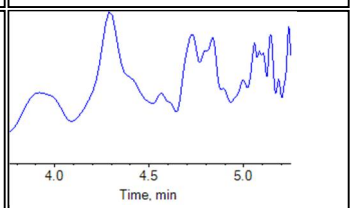

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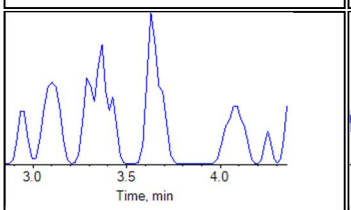

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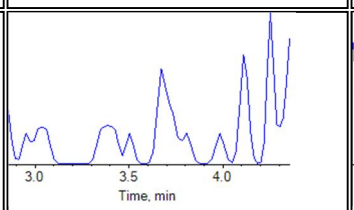

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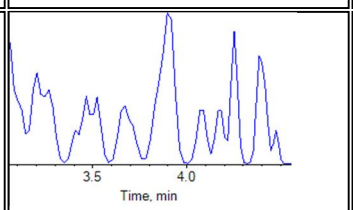

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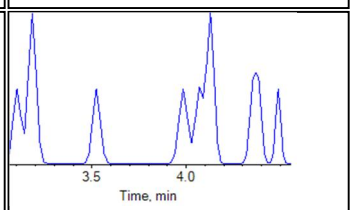

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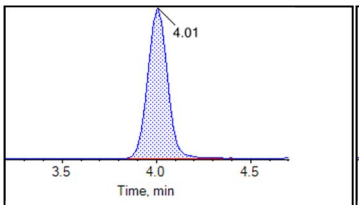

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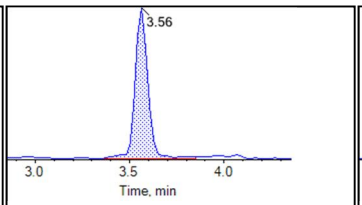

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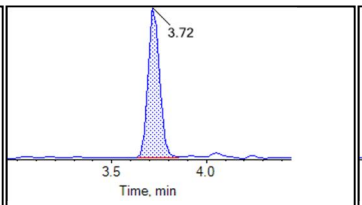

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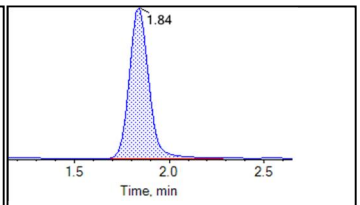

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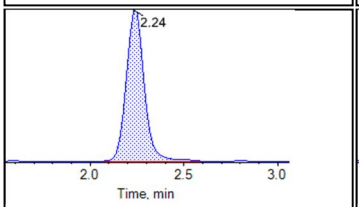

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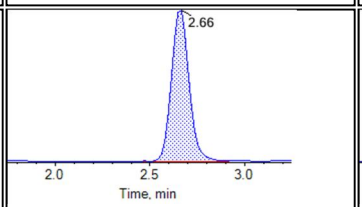

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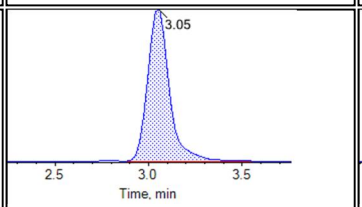

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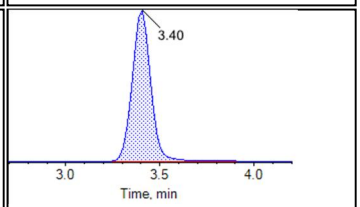

13C6-PFDA

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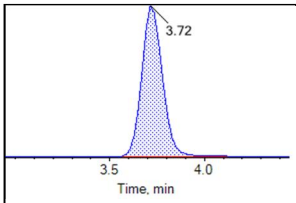
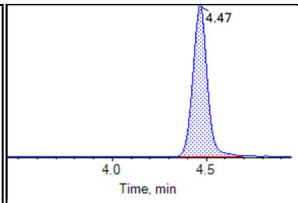



13C7-PFUnA

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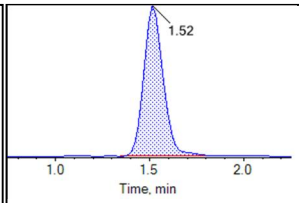


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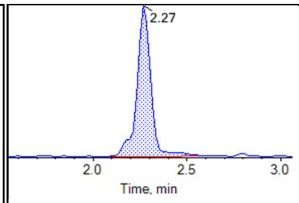


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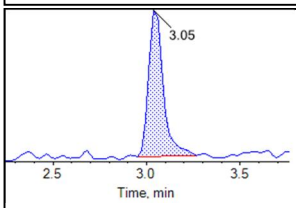


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:47:40 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(3) | **Injection Vial** | 7 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:32:03 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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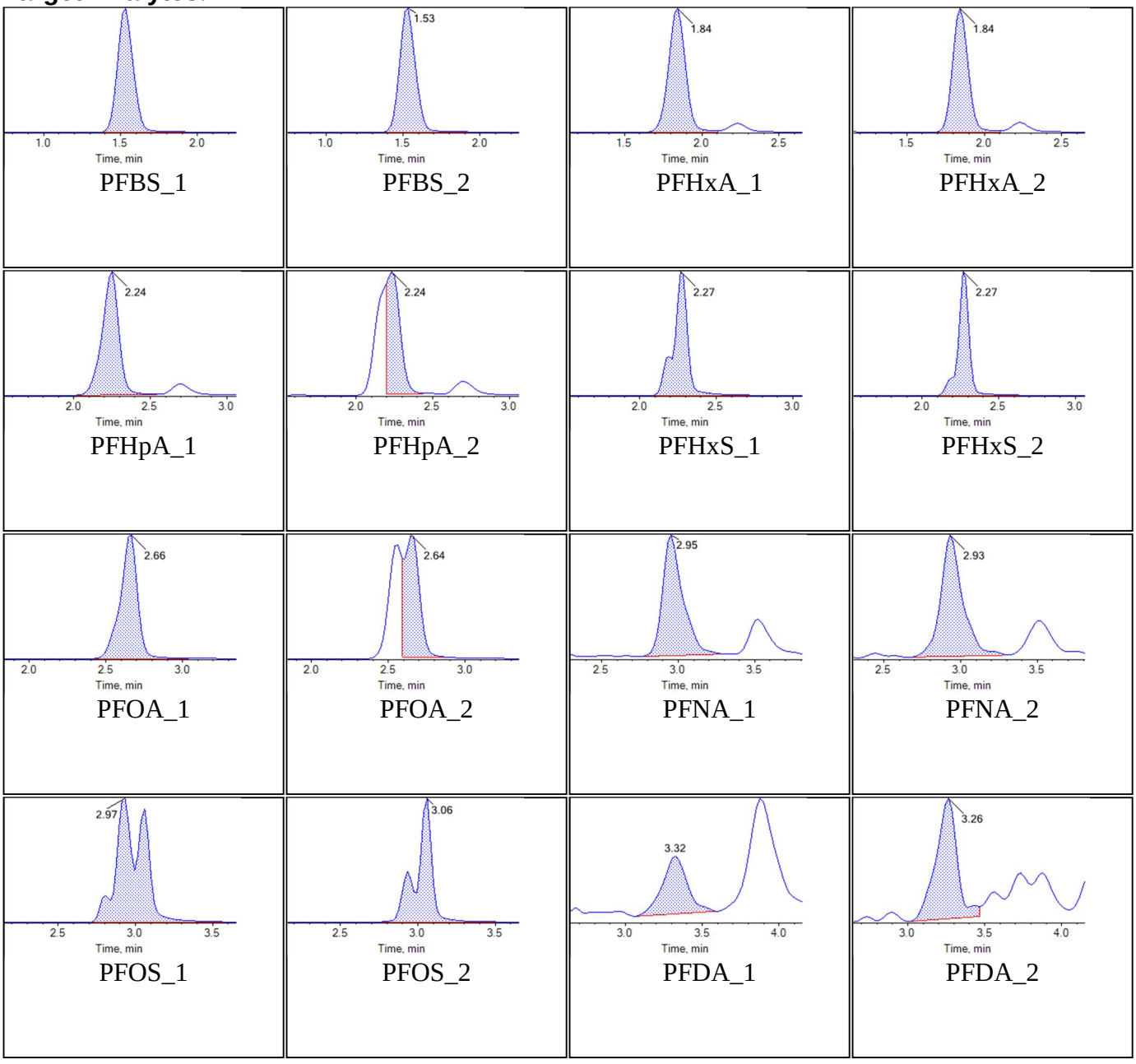

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Chromatogram Report

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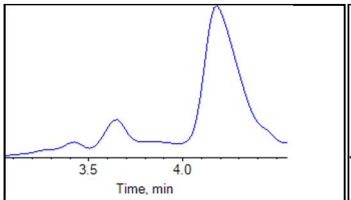

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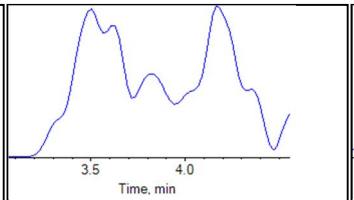

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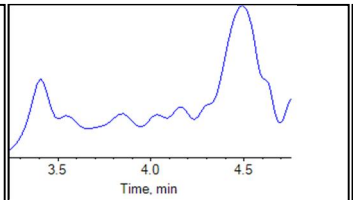

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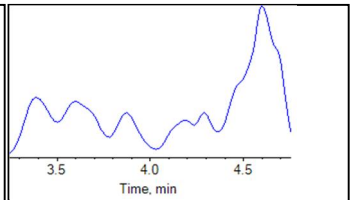

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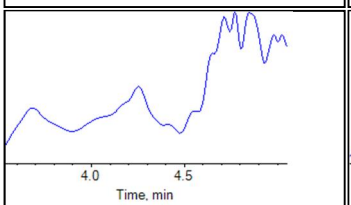

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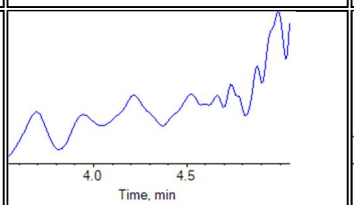

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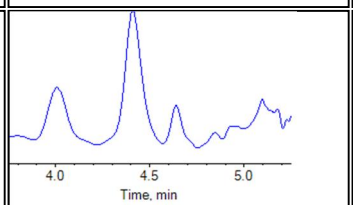

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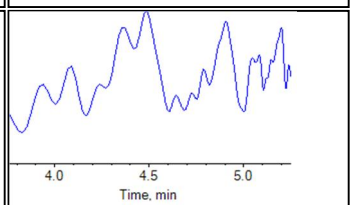

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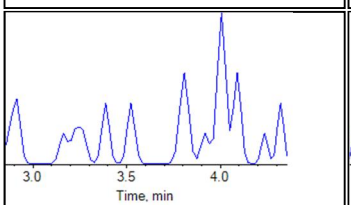

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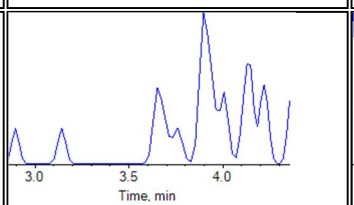

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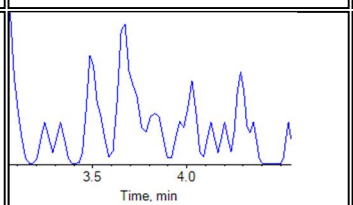

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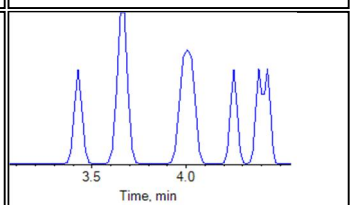

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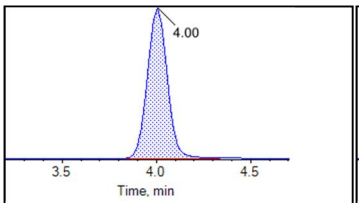

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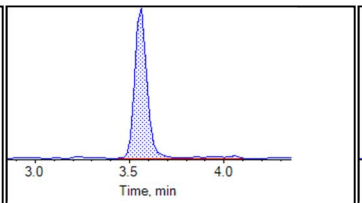

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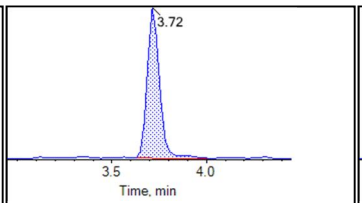
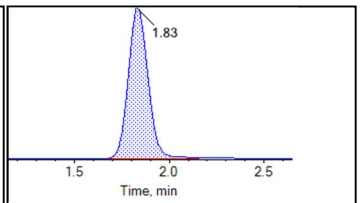
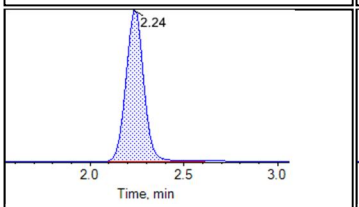


d5-EtFOSAA



13C5-PFHxA



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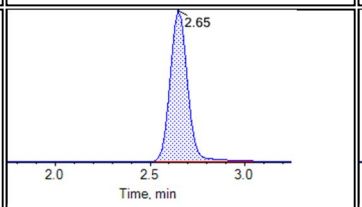

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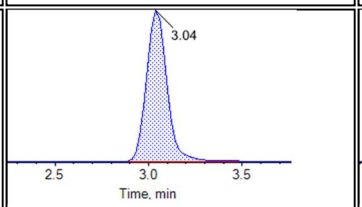
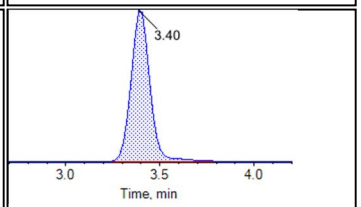


13C9-PFNA



13C6-PFDA

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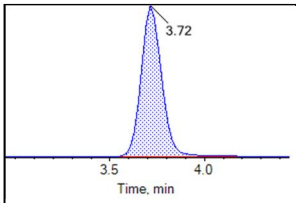
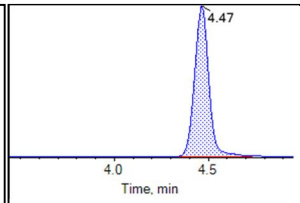



13C7-PFUnA

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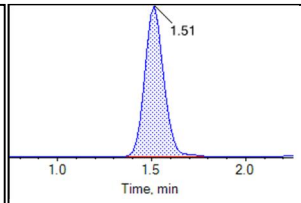


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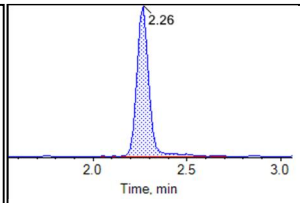


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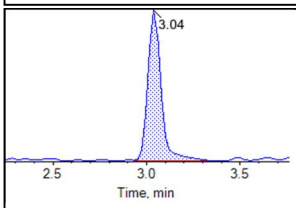


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(5) | **Injection Vial** | 8 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:42:55 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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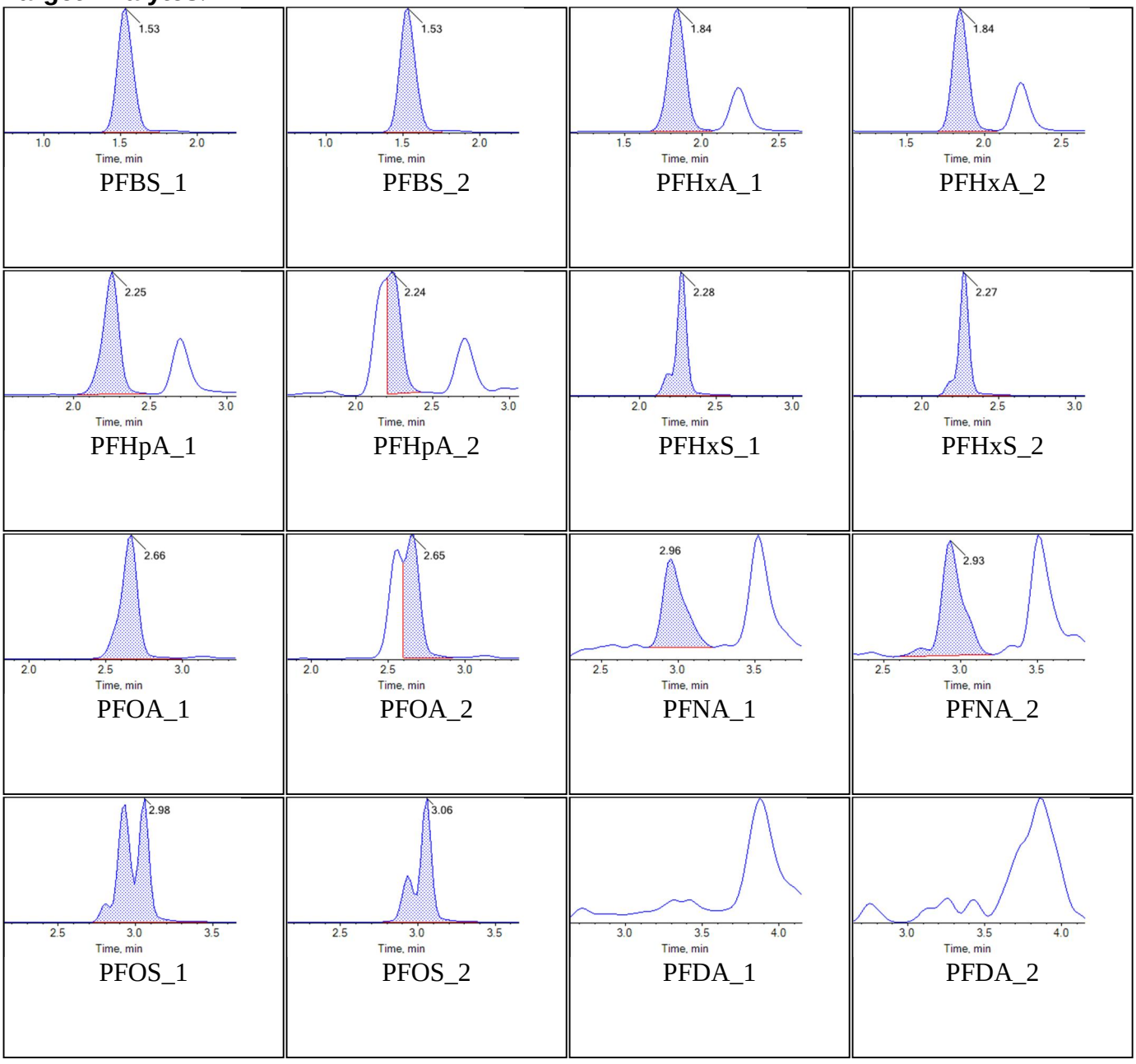

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Chromatogram Report

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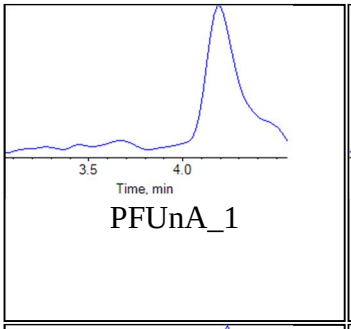

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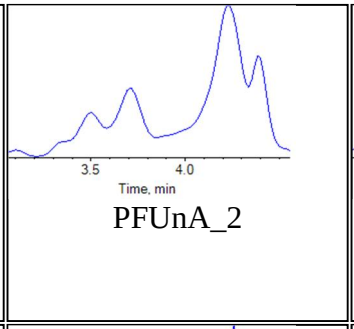

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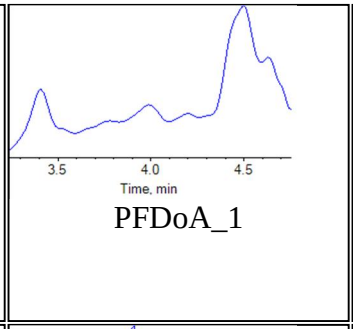
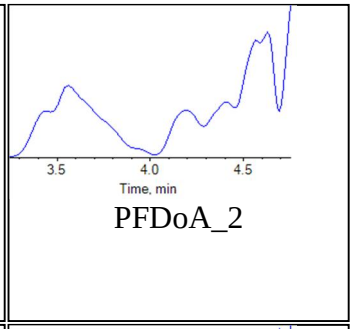
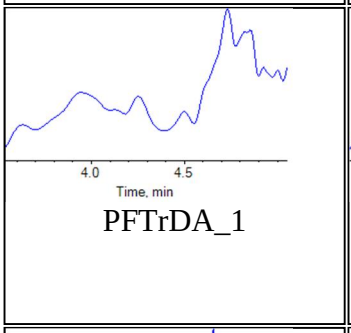


PFDoA_1



PFDoA_2



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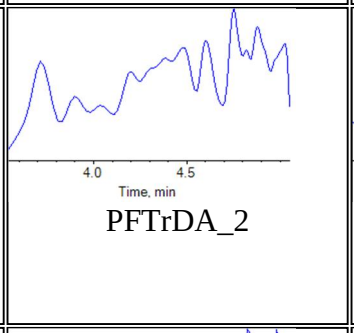

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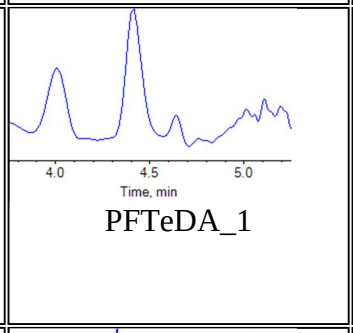

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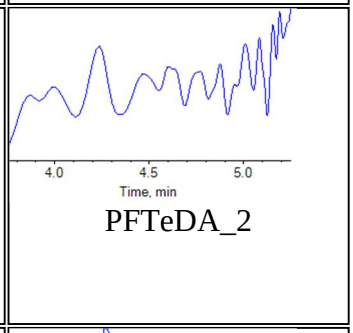

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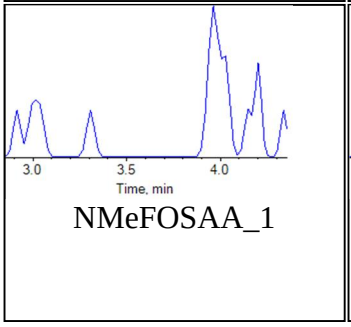

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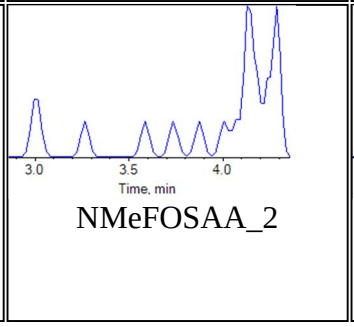

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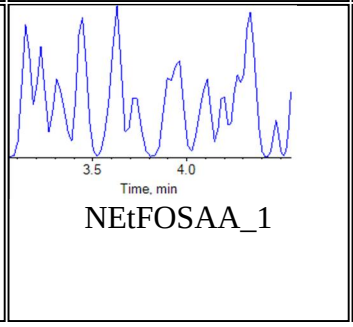

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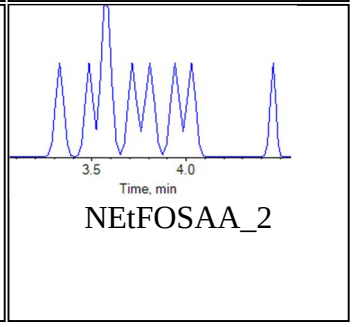

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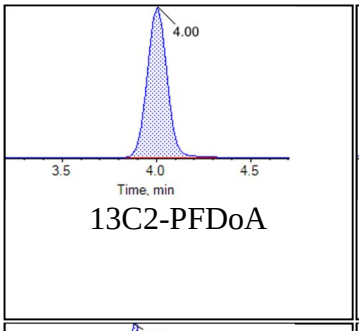

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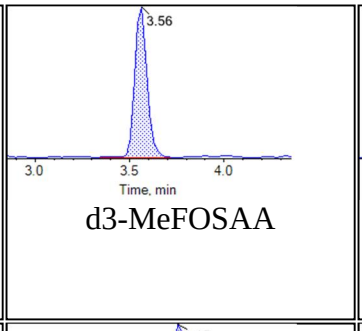
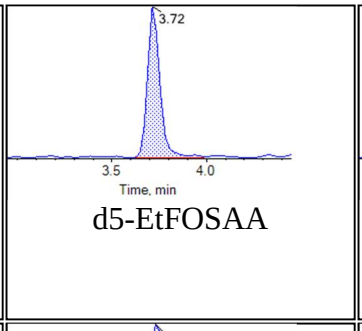


d3-MeFOSAA



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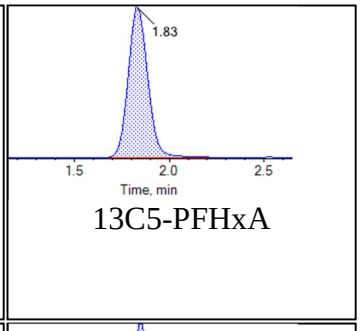

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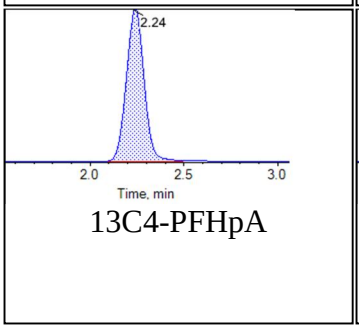

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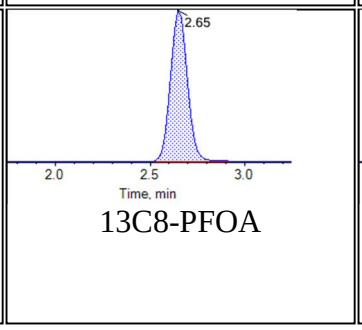
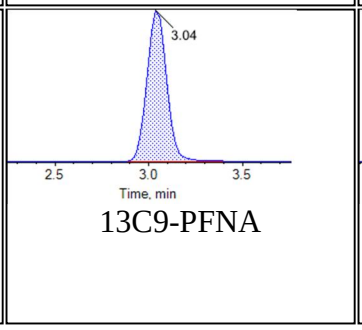
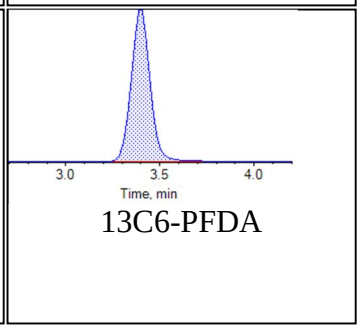


13C8-PFOA



13C9-PFNA



13C6-PFDA

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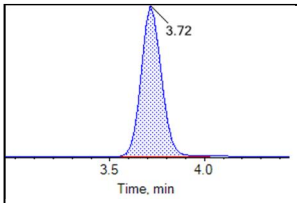
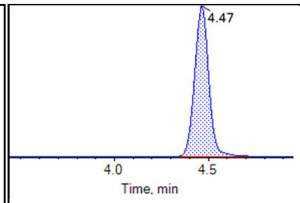



13C7-PFUnA

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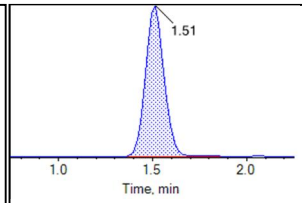


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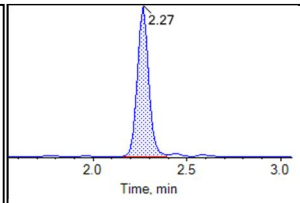


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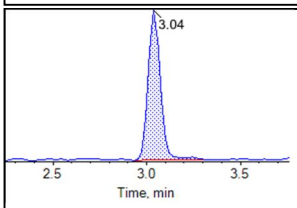


13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:47:59 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS(0) | **Injection Vial** | 11 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:15:33 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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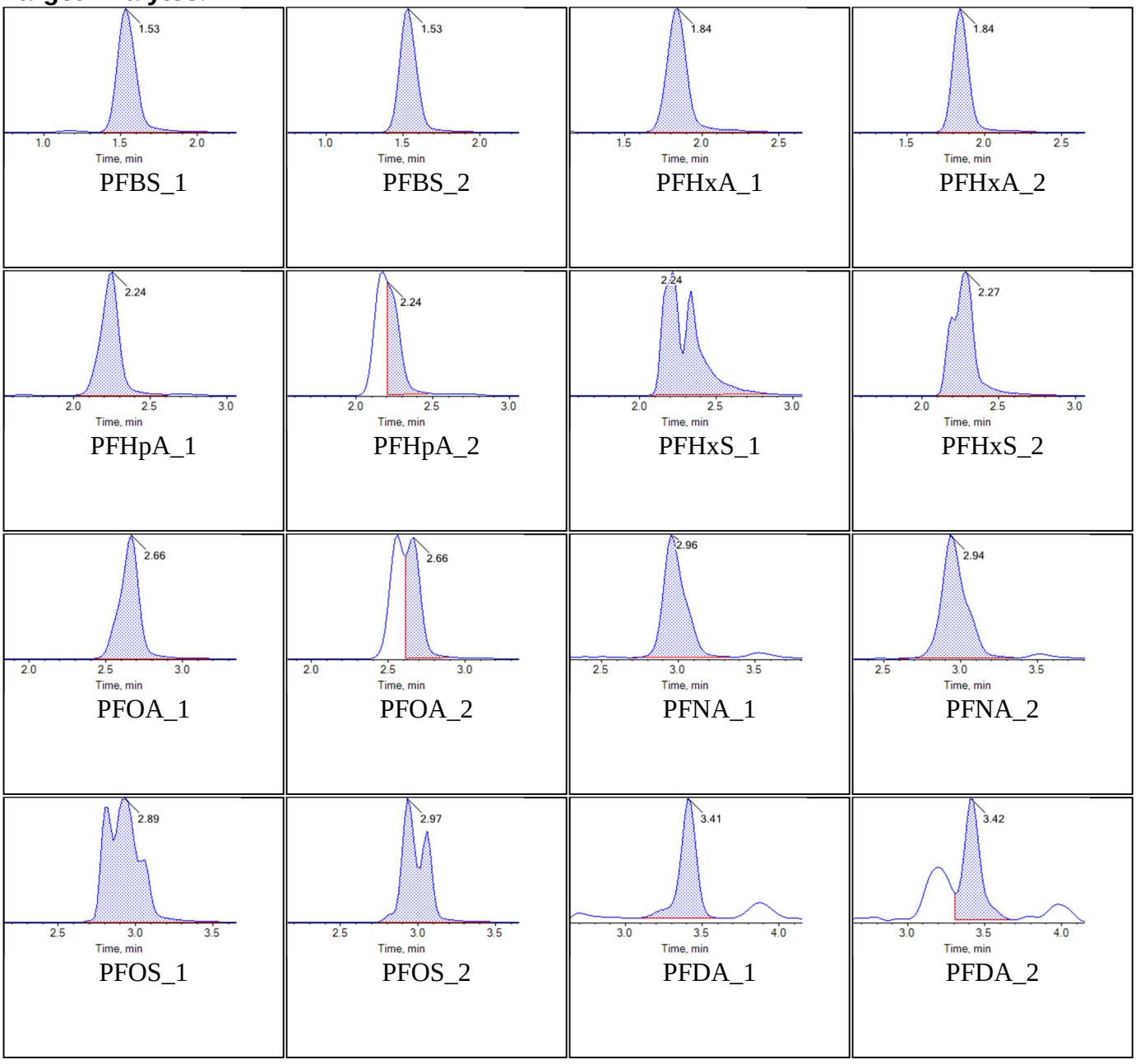

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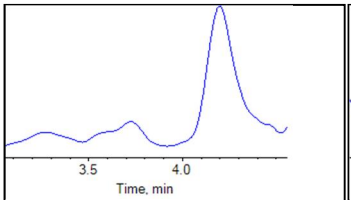

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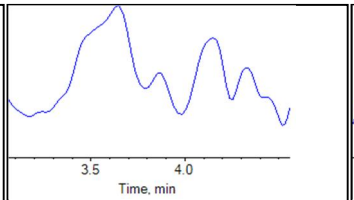

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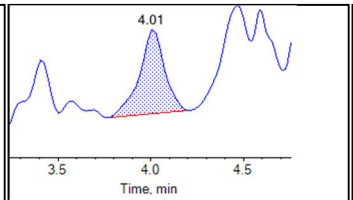

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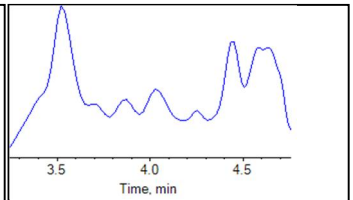
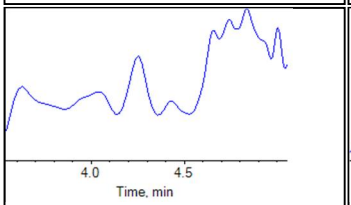


PFDoA_2



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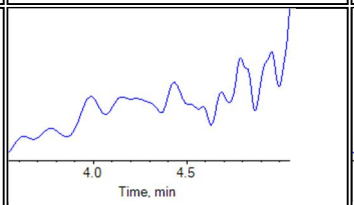

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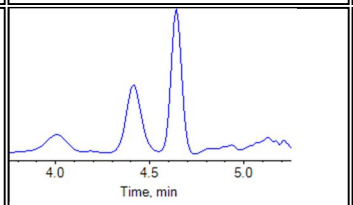

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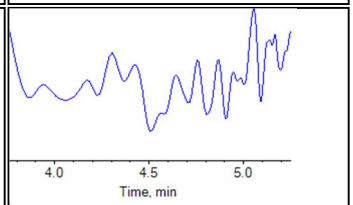

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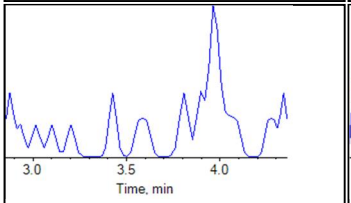

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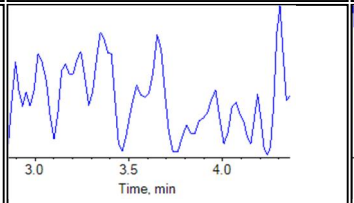

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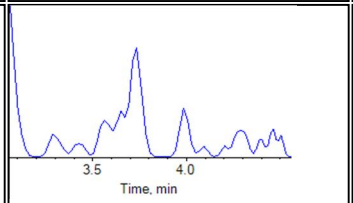

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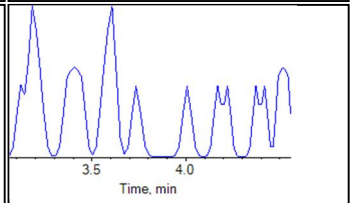

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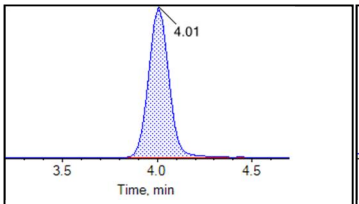

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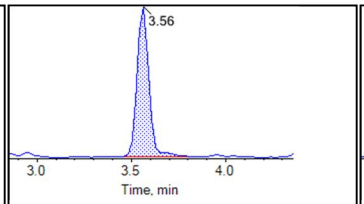
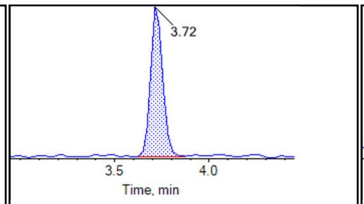
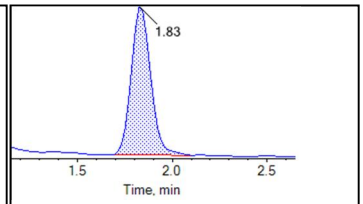


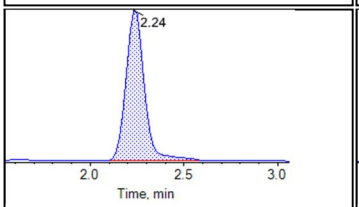
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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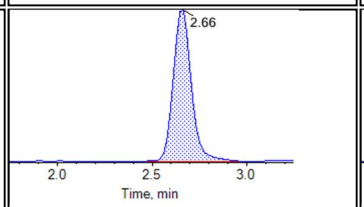

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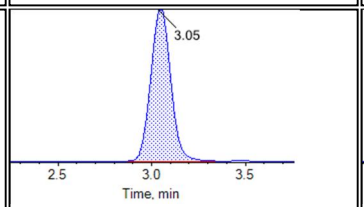
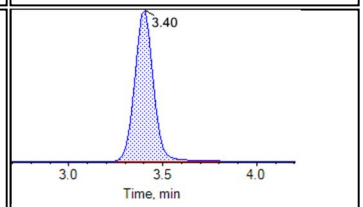


13C9-PFNA



13C6-PFDA

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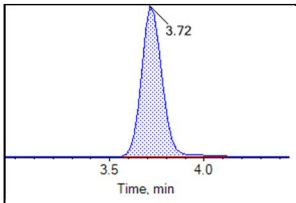
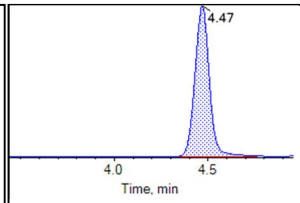
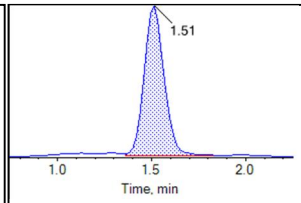


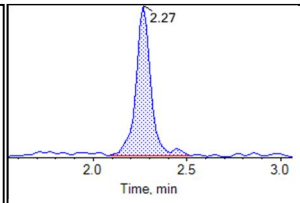

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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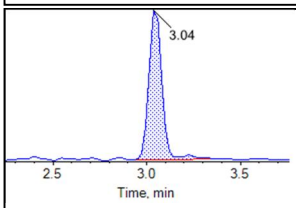


13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(3) | **Injection Vial** | 12 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:26:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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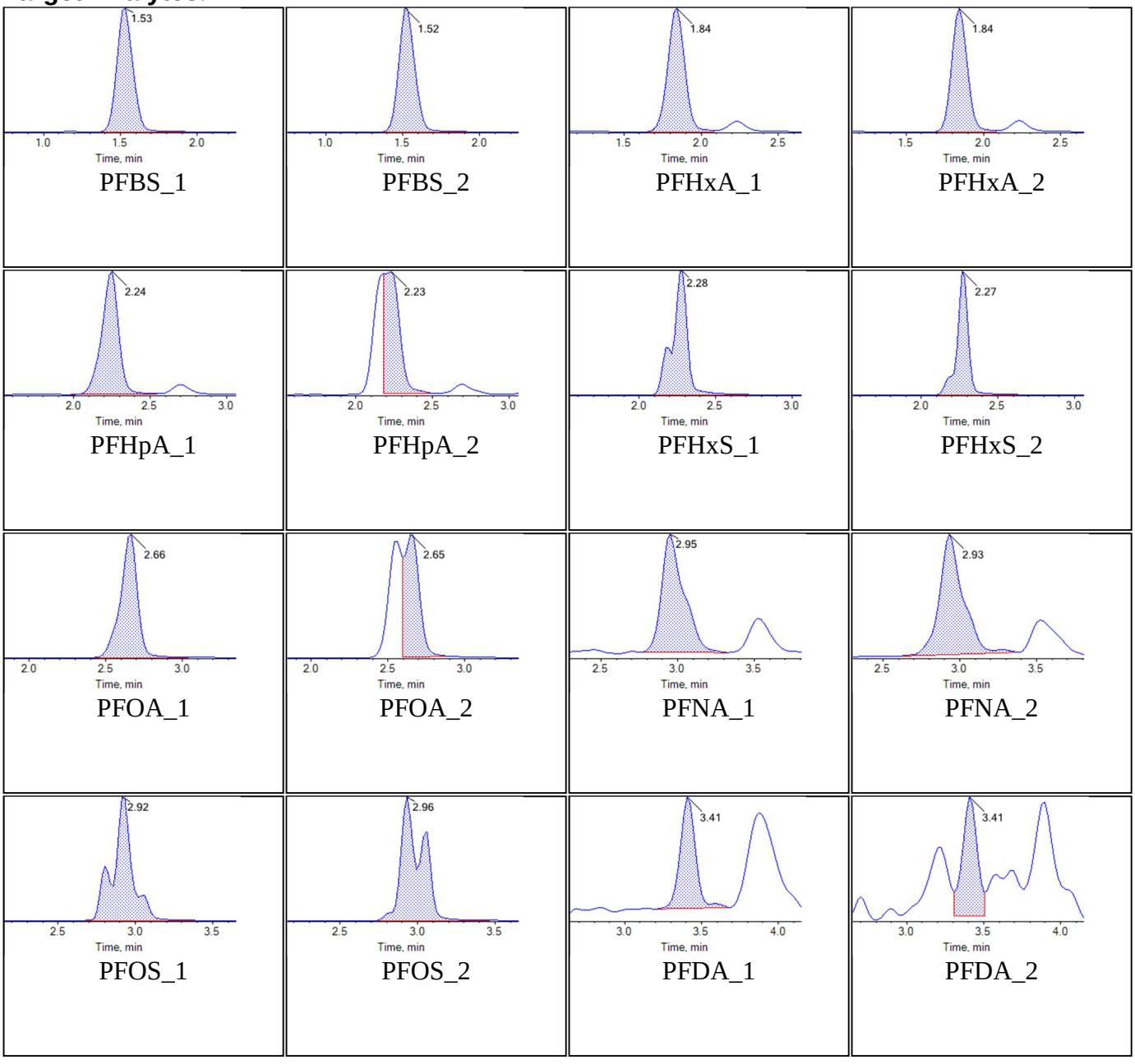

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Chromatogram Report

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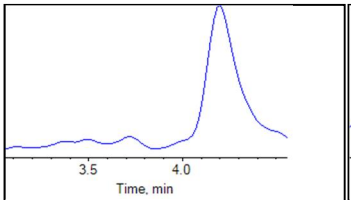
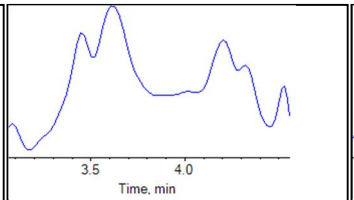
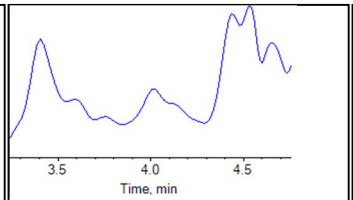


PFUnA_1



PFUnA_2



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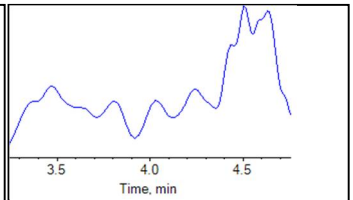

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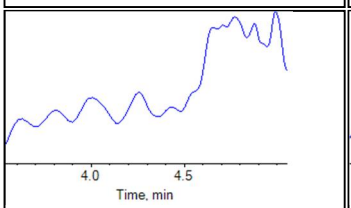

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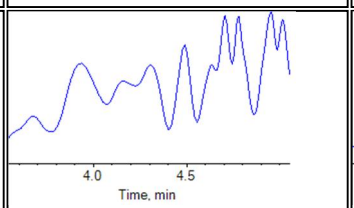

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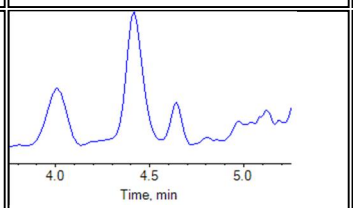

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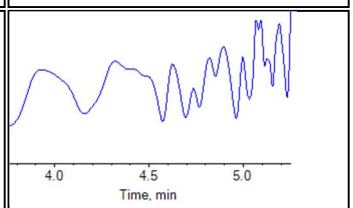

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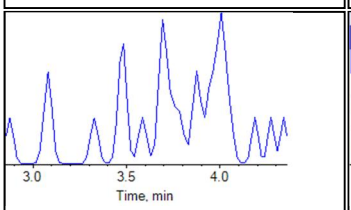

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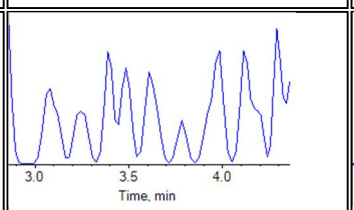

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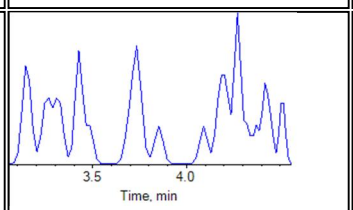

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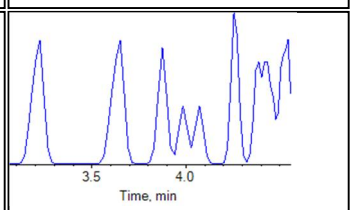

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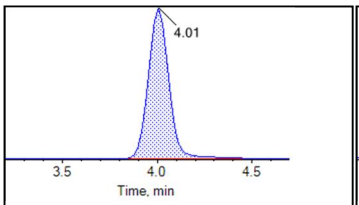

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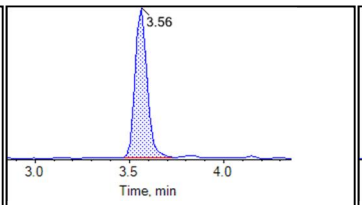

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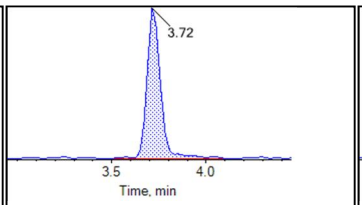

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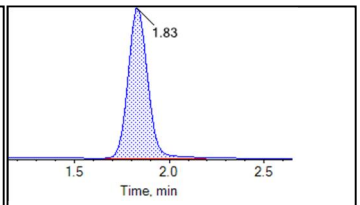

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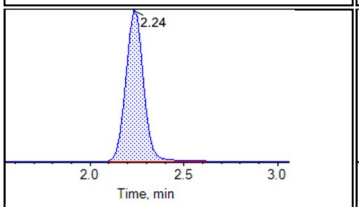

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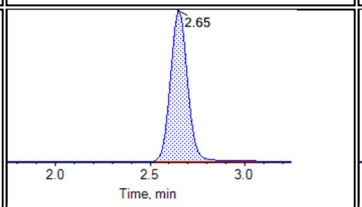

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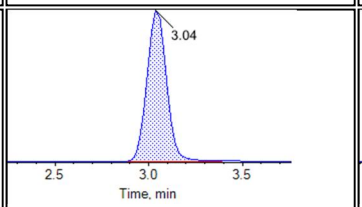

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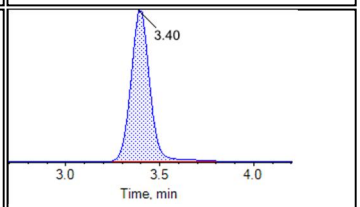

13C6-PFDA

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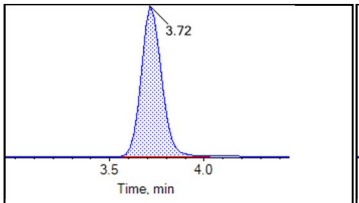
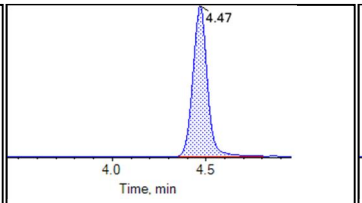



13C7-PFUnA

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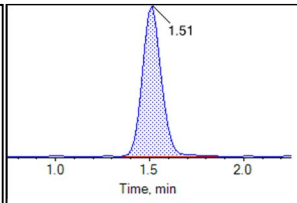


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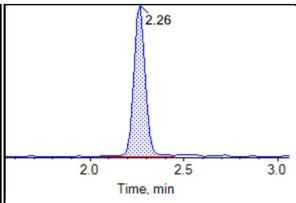


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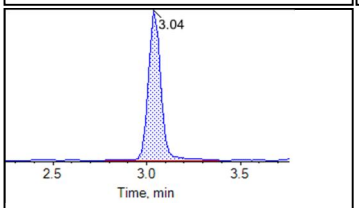


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(5) | **Injection Vial** | 13 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:37:18 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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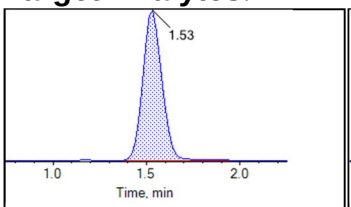

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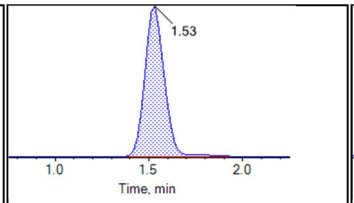

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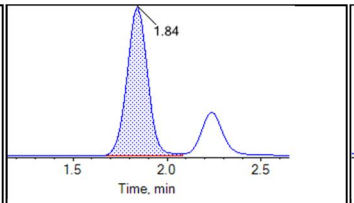

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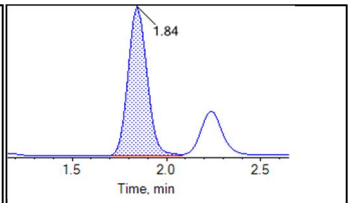

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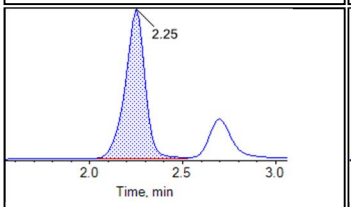

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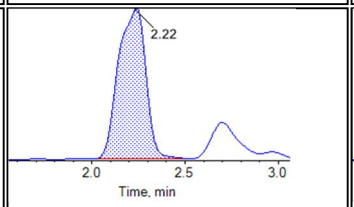

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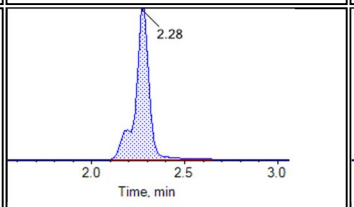

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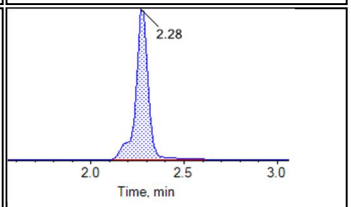

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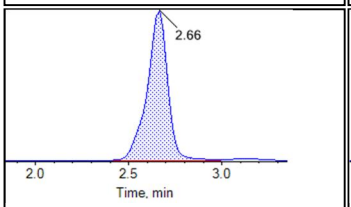

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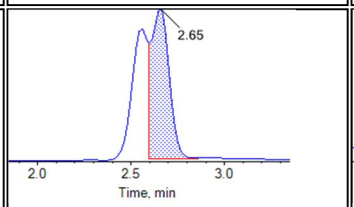

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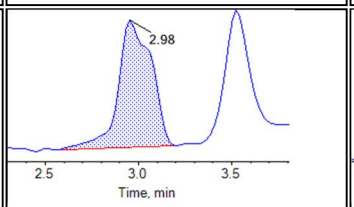

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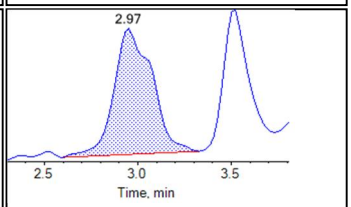

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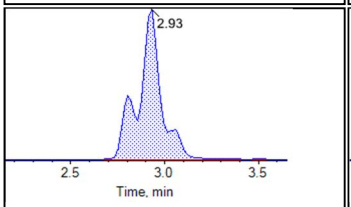

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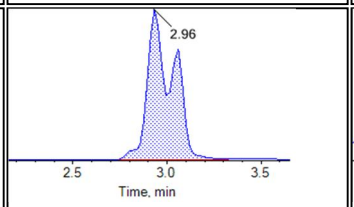

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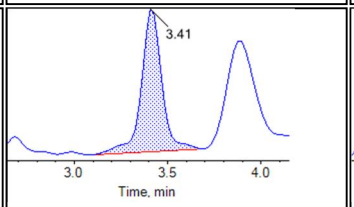

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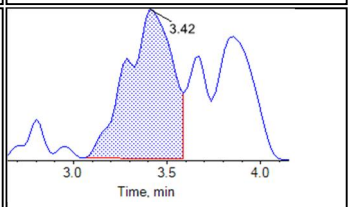

PFDA_2

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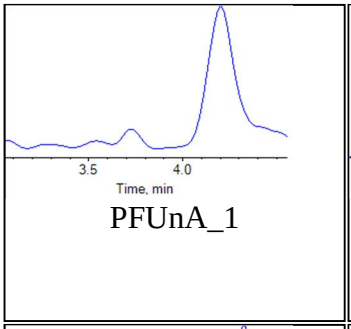

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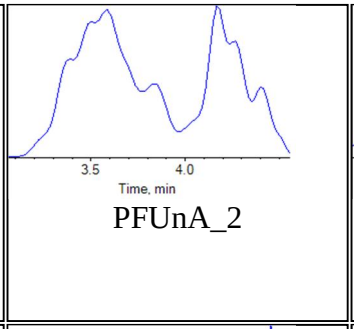

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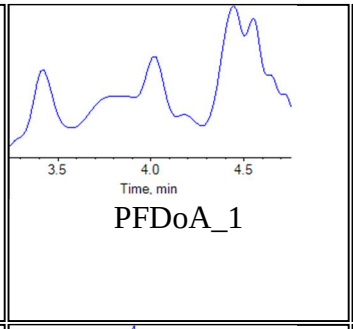

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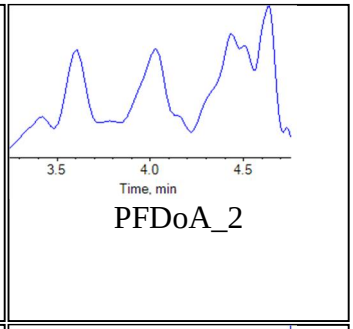

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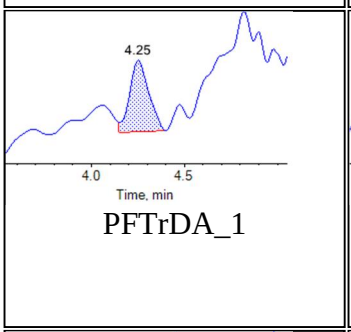

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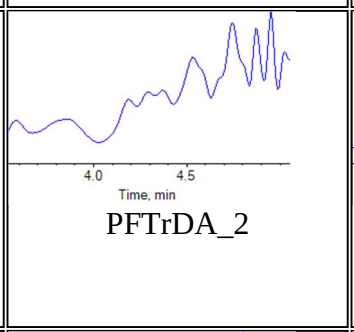

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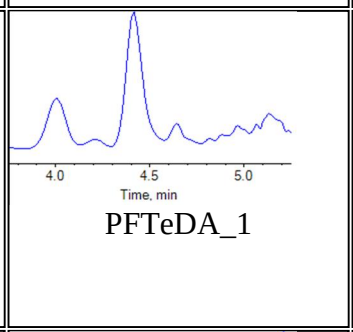

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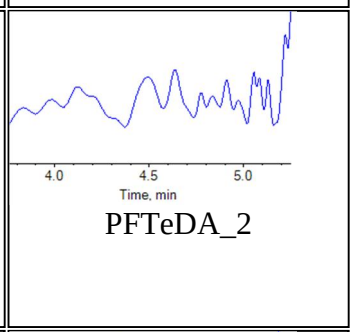

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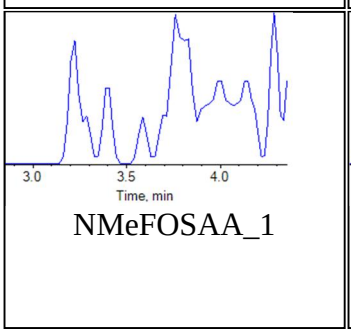

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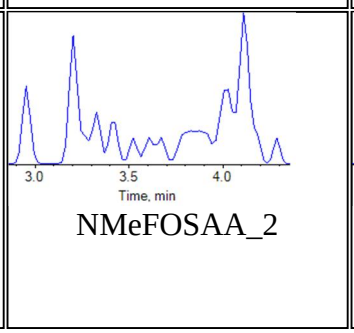

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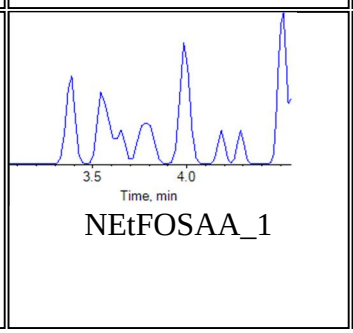

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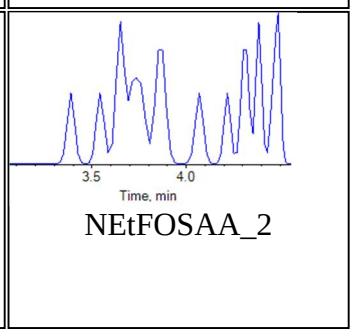

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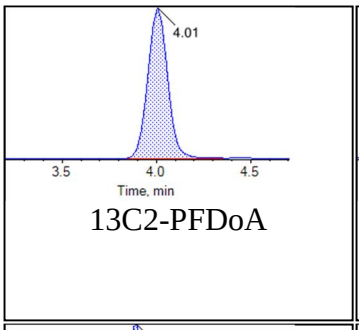

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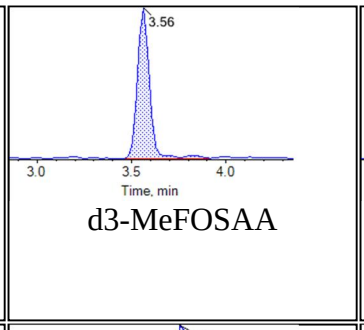
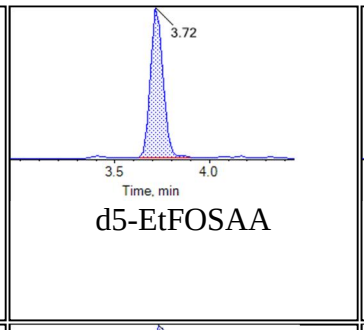
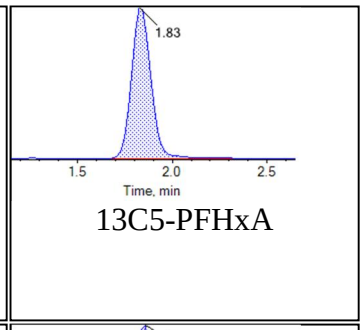


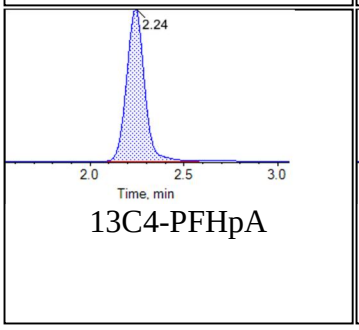
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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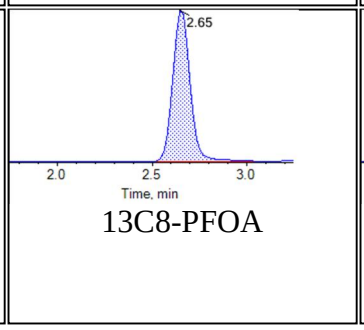
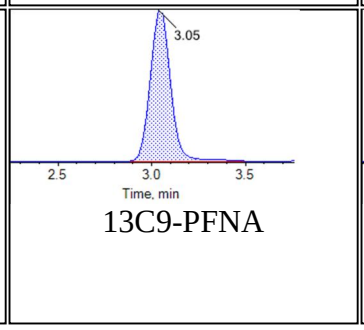
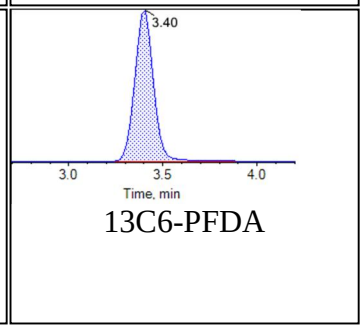


13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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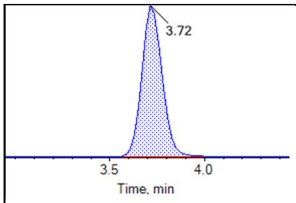
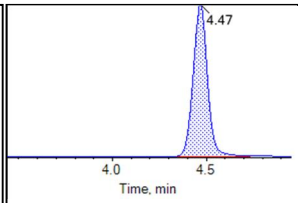
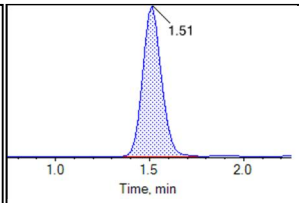


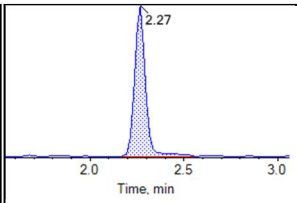

13C7-PFUnA



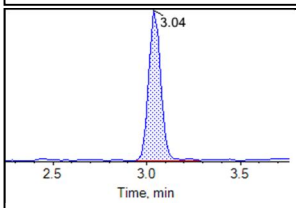

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(7) | **Injection Vial** | 14 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:48:10 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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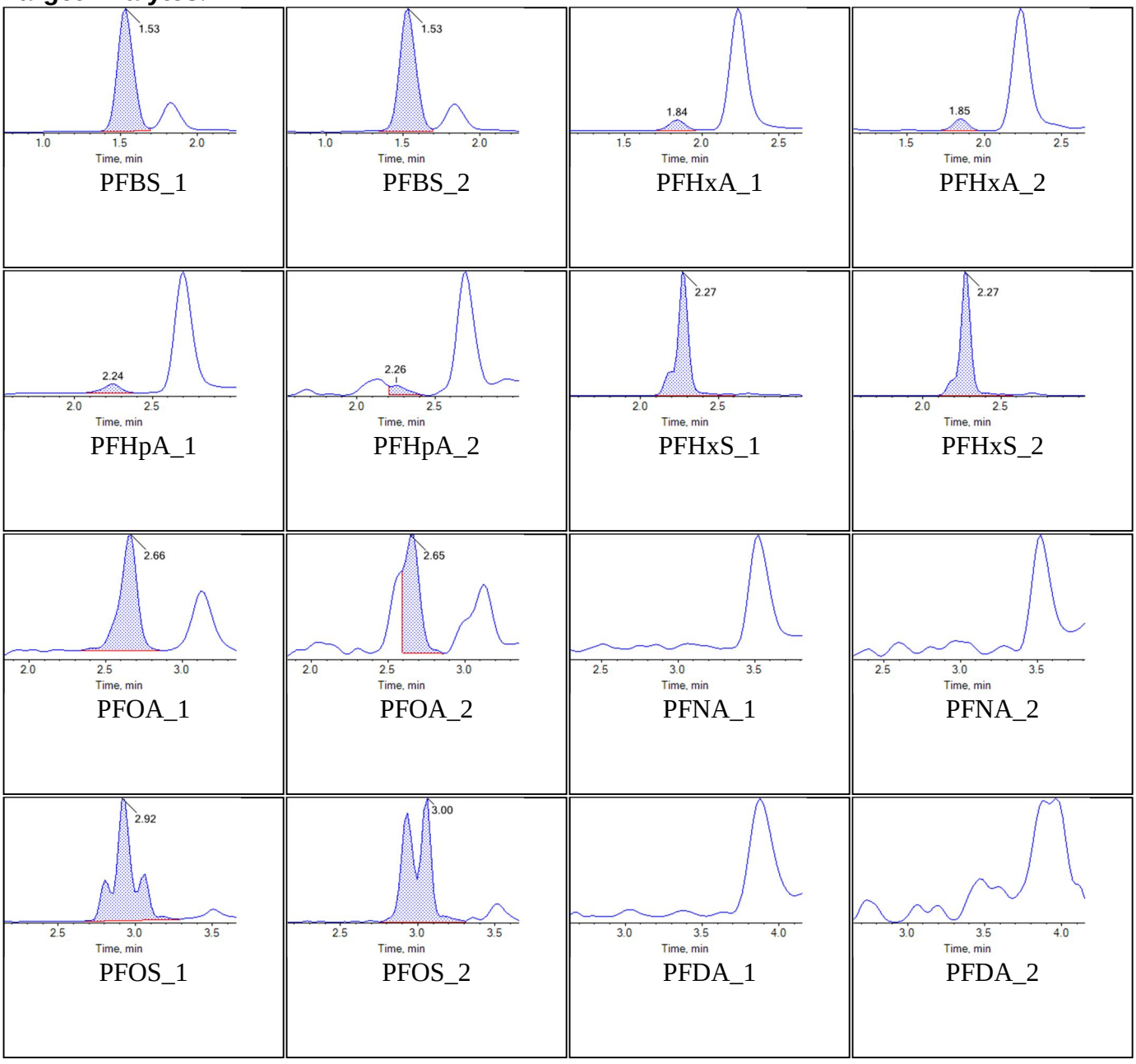

BATTELLE

Chromatogram Report

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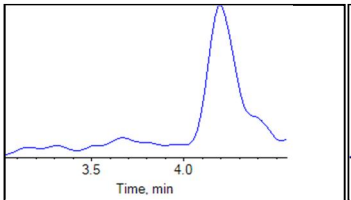

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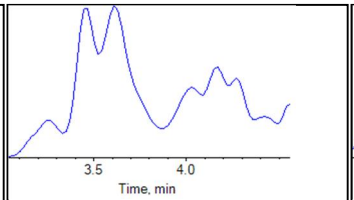
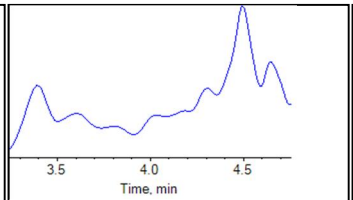


PFUnA_2



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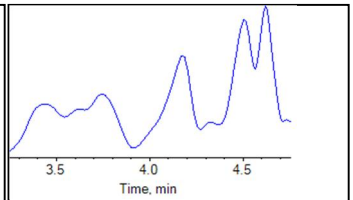
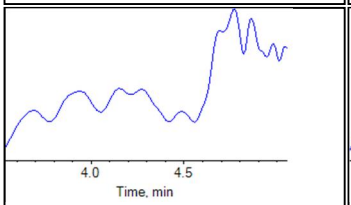
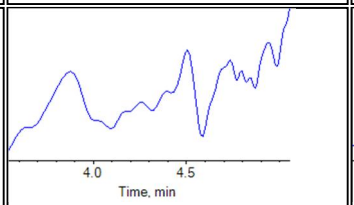


PFDoA_2



PFTrDA_1



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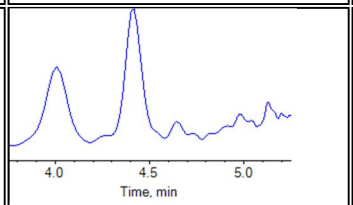

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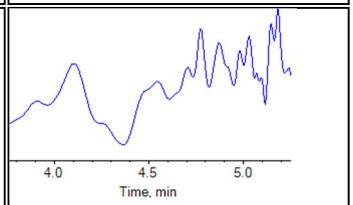

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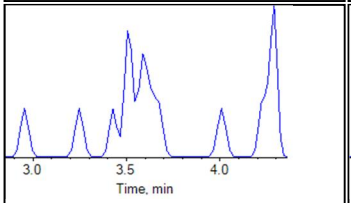

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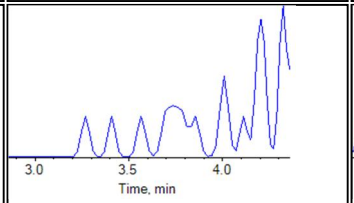

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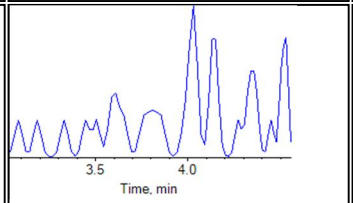

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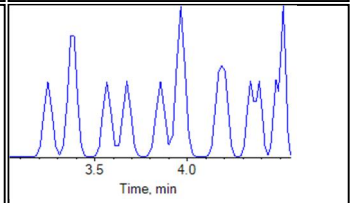

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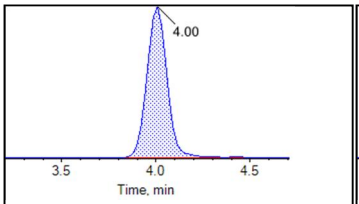
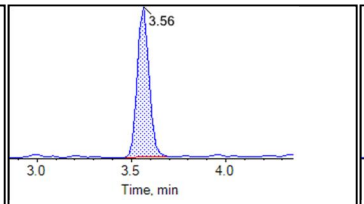
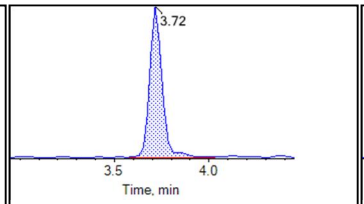


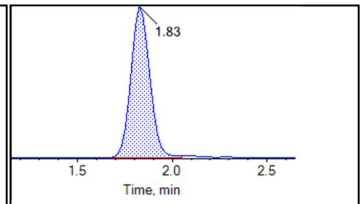
13C2-PFDoA



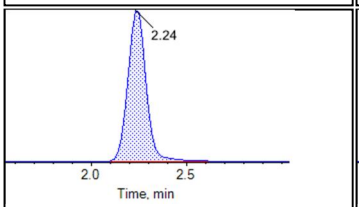
d3-MeFOSAA



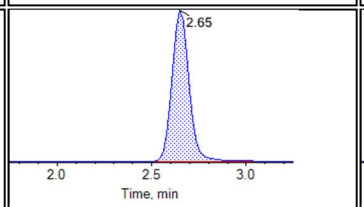
d5-EtFOSAA



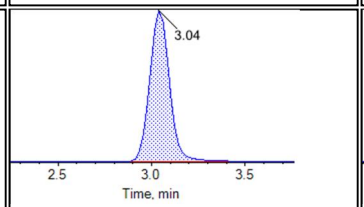
13C5-PFHxA



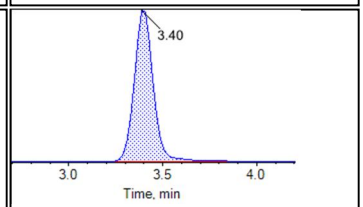
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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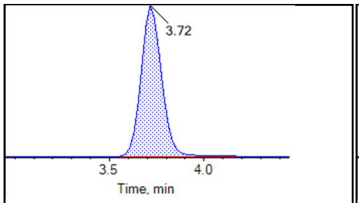
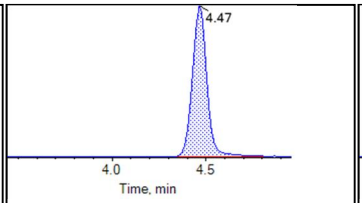



13C7-PFUnA

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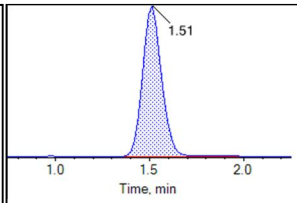
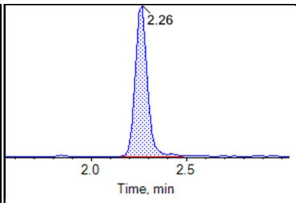



13C3-PFBS

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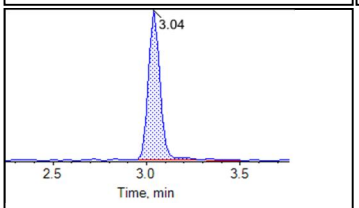


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:48:19 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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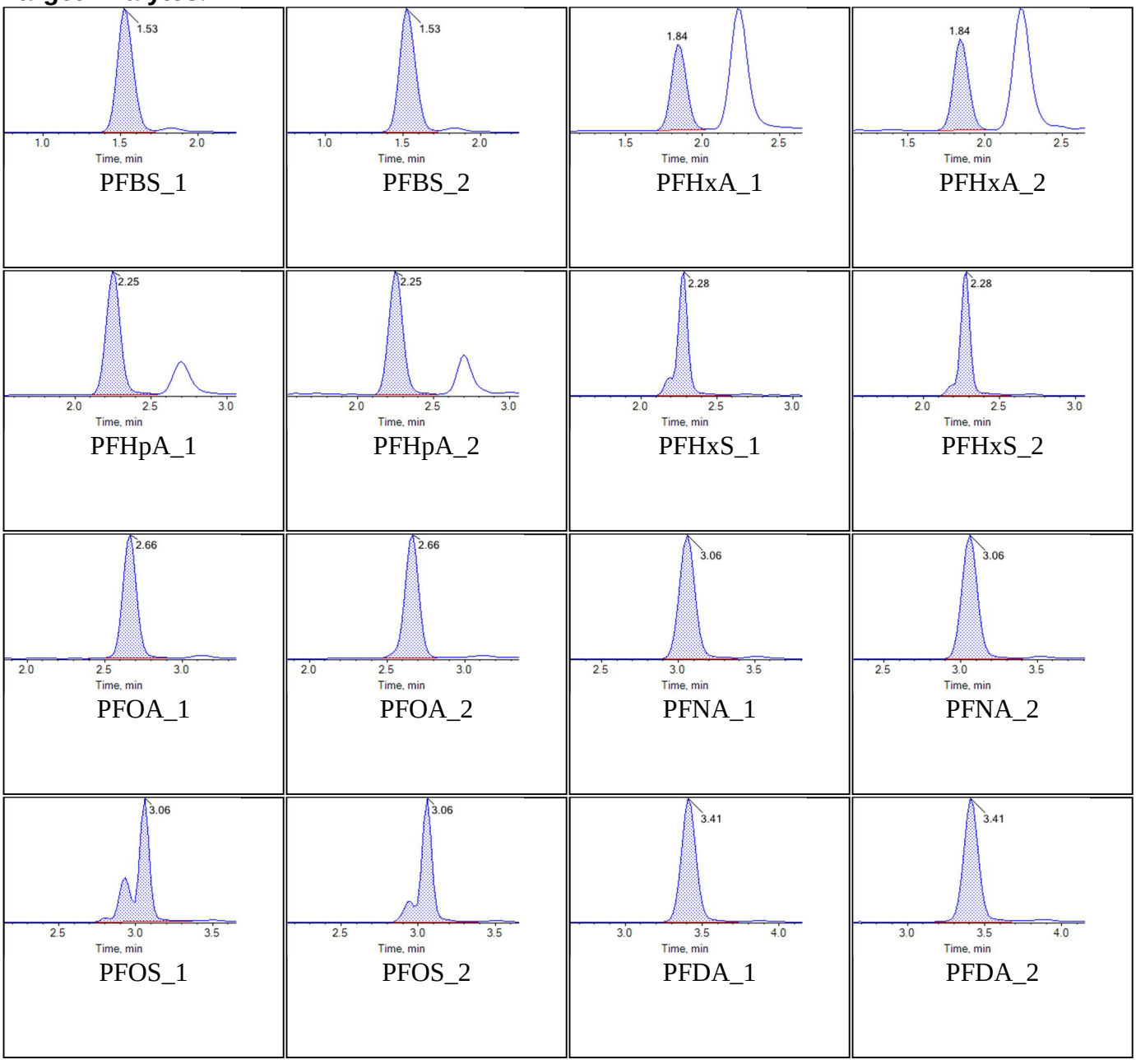

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Chromatogram Report

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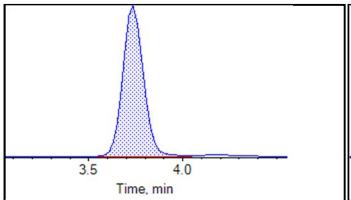

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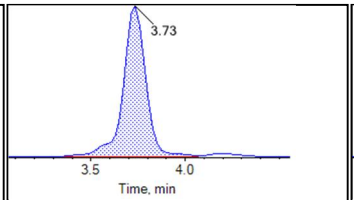
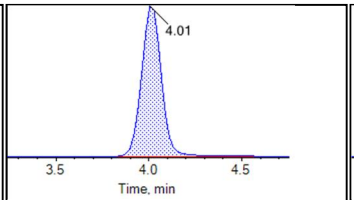


PFUnA_2



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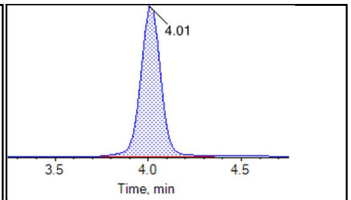
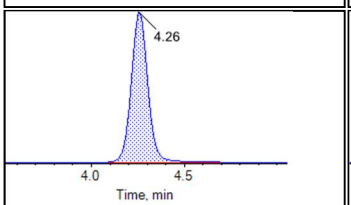
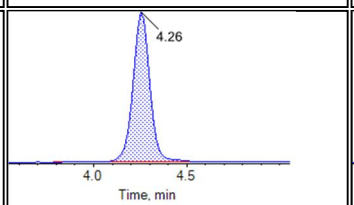


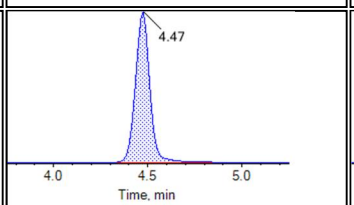
PFDoA_2



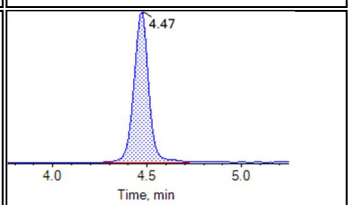
PFTrDA_1



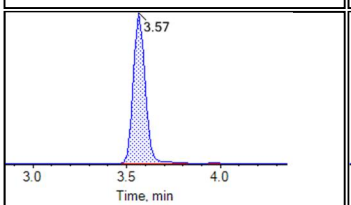
PFTrDA_2



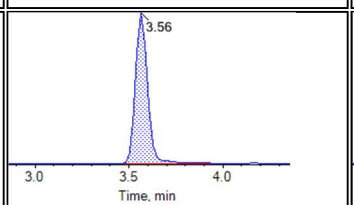
PFTeDA_1



PFTeDA_2



NMeFOSAA_1



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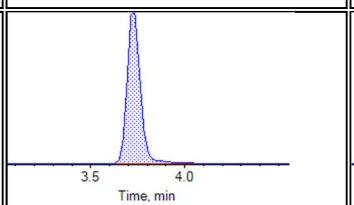

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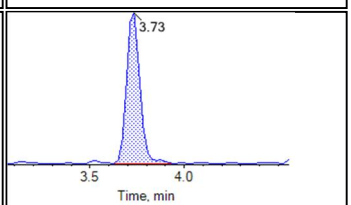
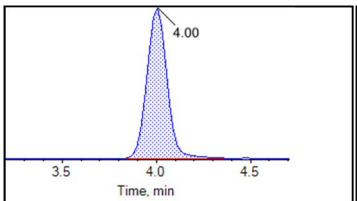


NEtFOSAA_2

## Internal Standards:



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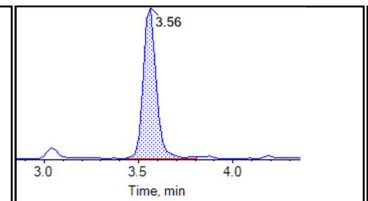
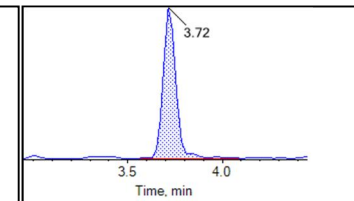


d3-MeFOSAA



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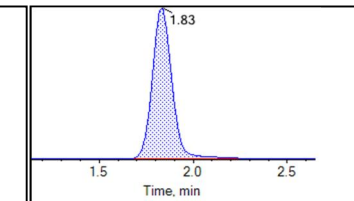

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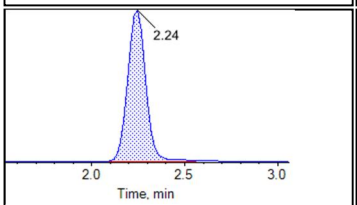

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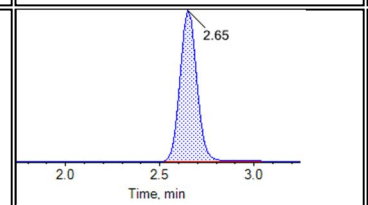

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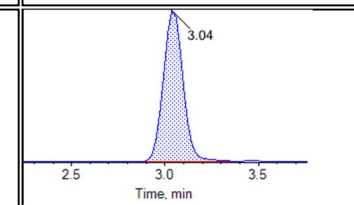

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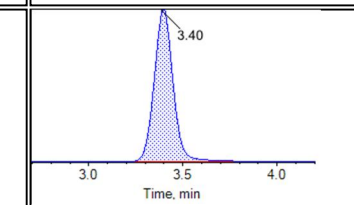

13C6-PFDA

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Chromatogram Report

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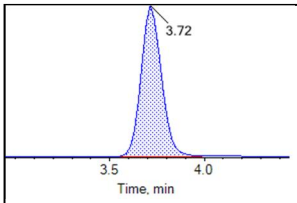
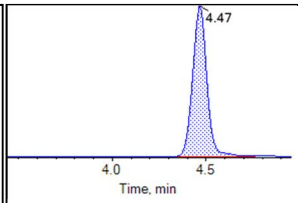



13C7-PFUnA

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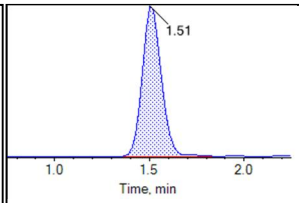
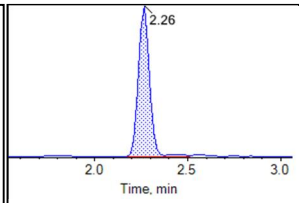



13C3-PFBS

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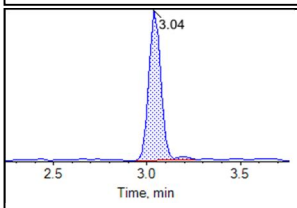


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:20:46 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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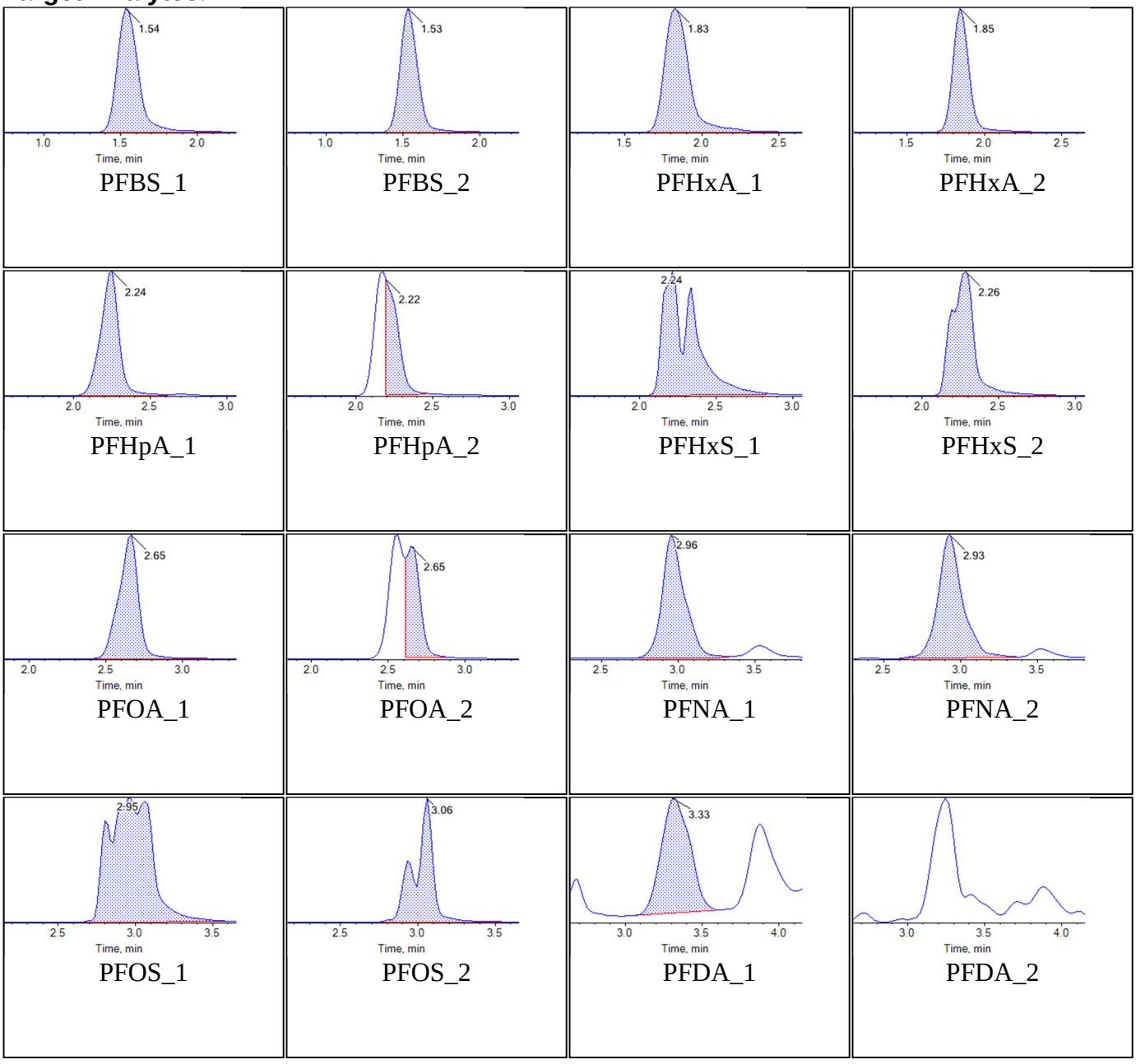

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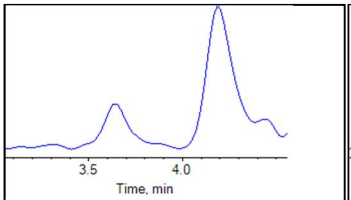

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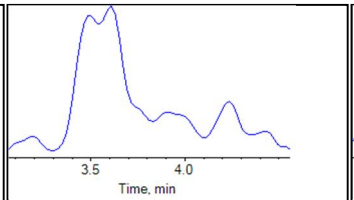

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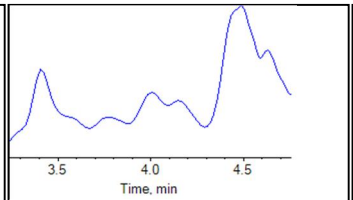

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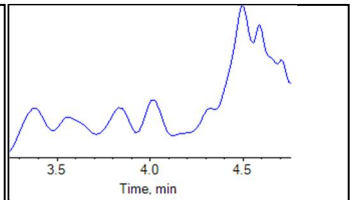

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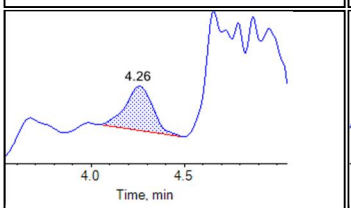

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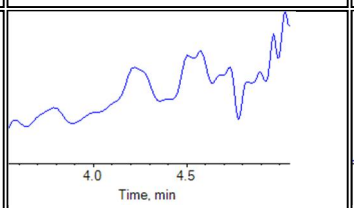

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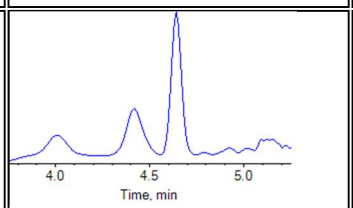

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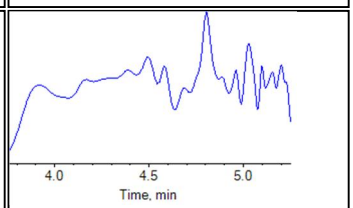

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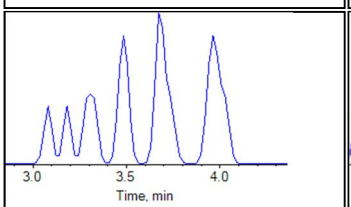

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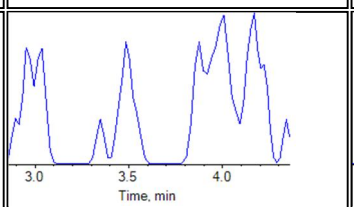

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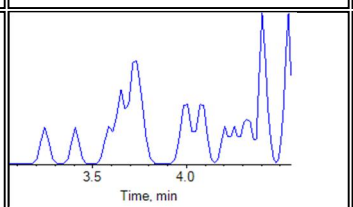

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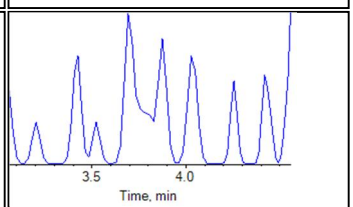

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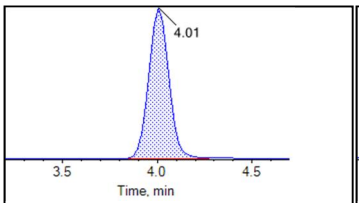

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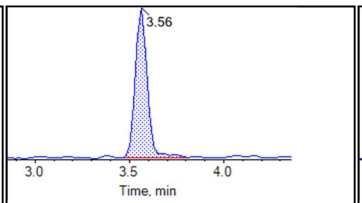
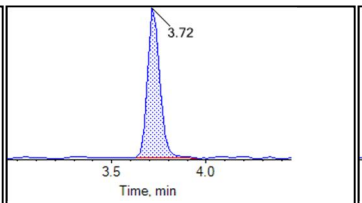
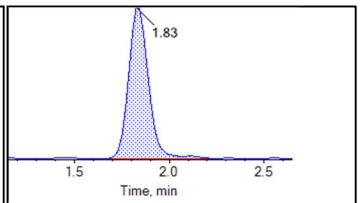


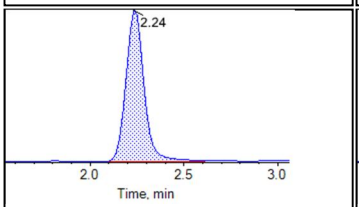
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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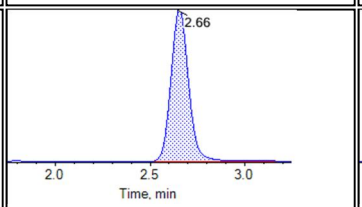

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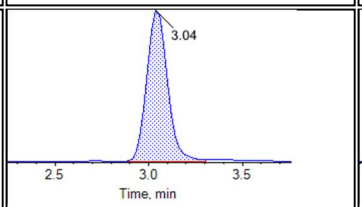
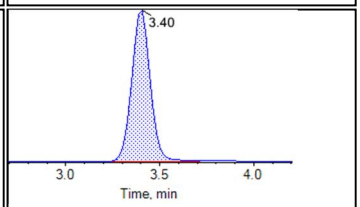


13C9-PFNA



13C6-PFDA

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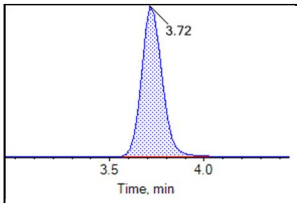
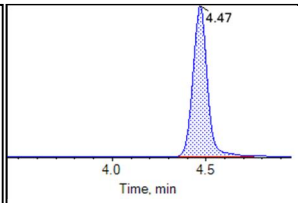



13C7-PFUnA

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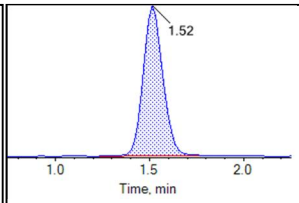


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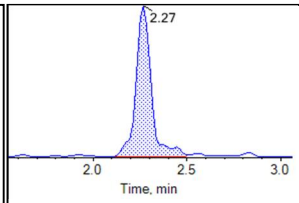


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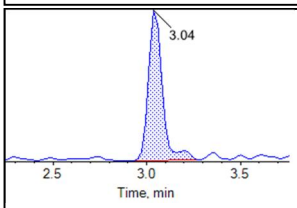


13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(3) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:31:38 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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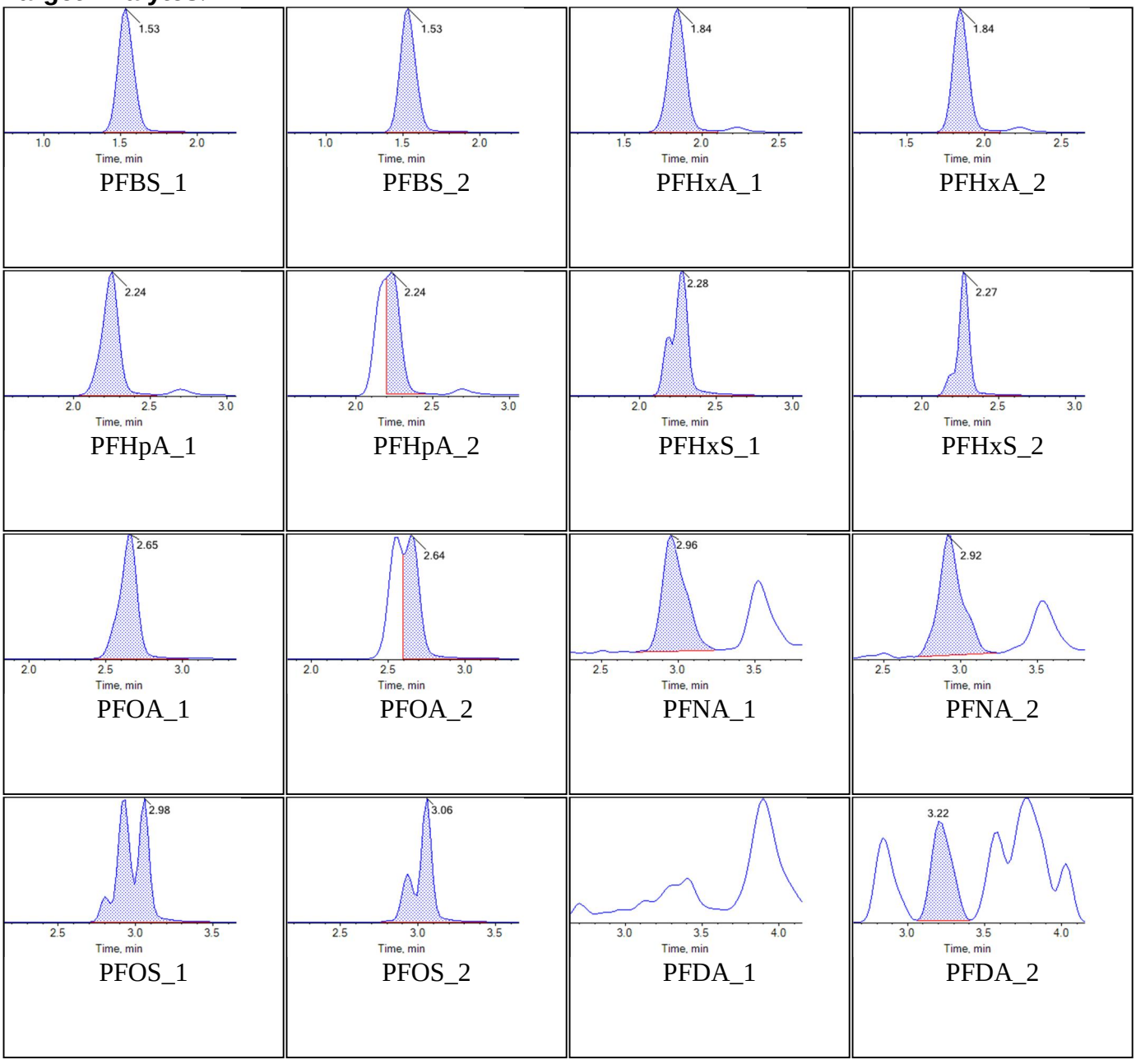

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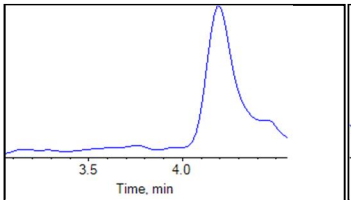

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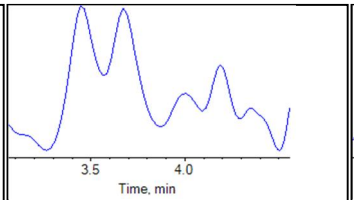

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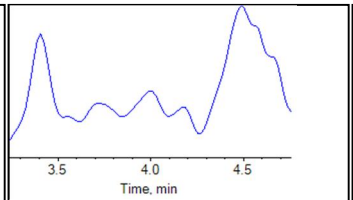

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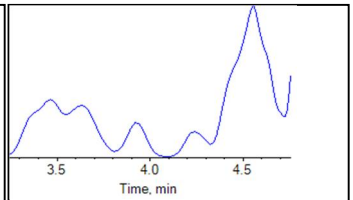

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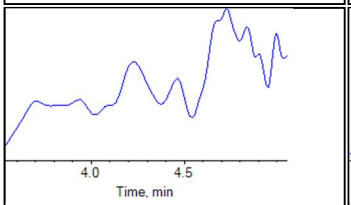

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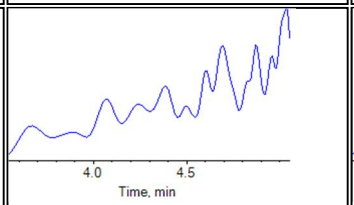

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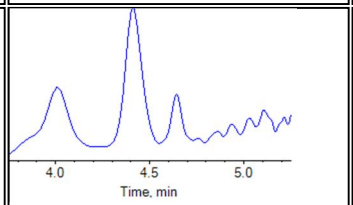

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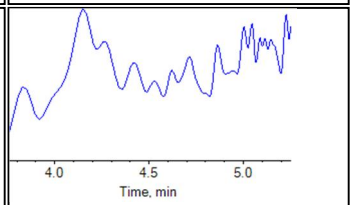

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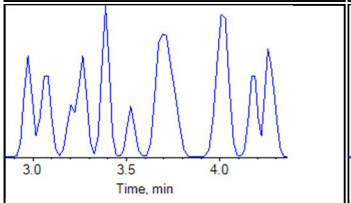

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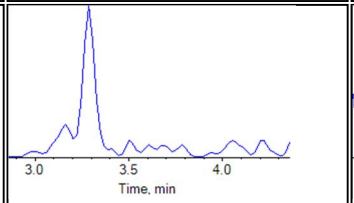

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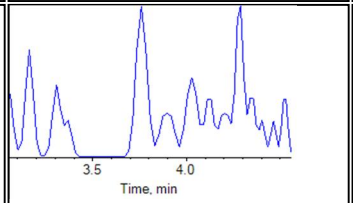

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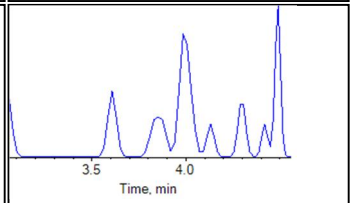

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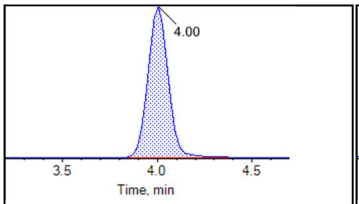

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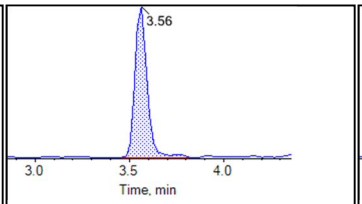
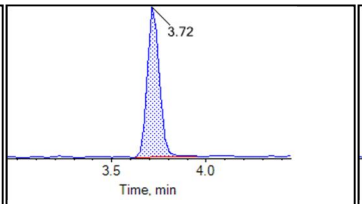
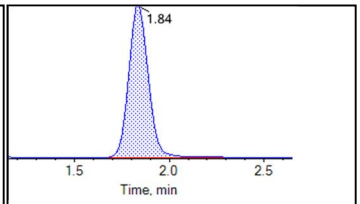


d3-MeFOSAA



d5-EtFOSAA



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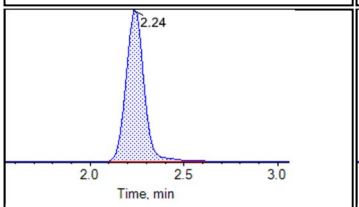
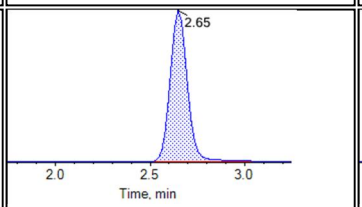
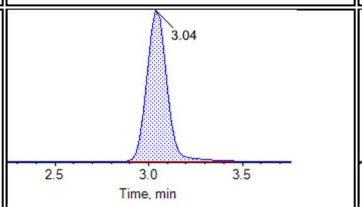


13C4-PFHpA



13C8-PFOA



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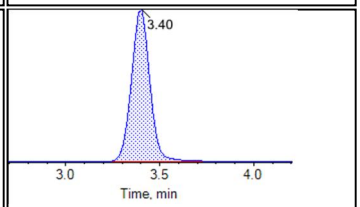

13C6-PFDA

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Chromatogram Report

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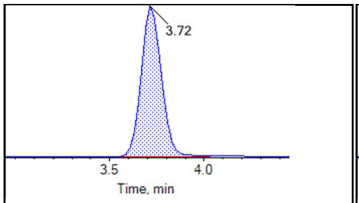
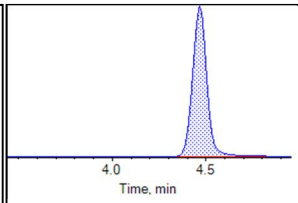



13C7-PFUnA

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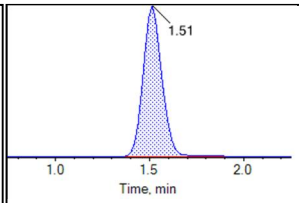
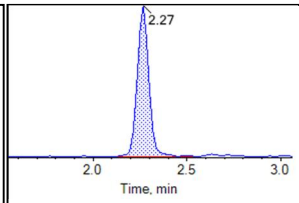



13C3-PFBS

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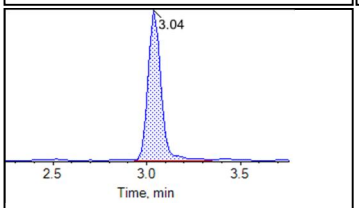


13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:48:38 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(5) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:42:30 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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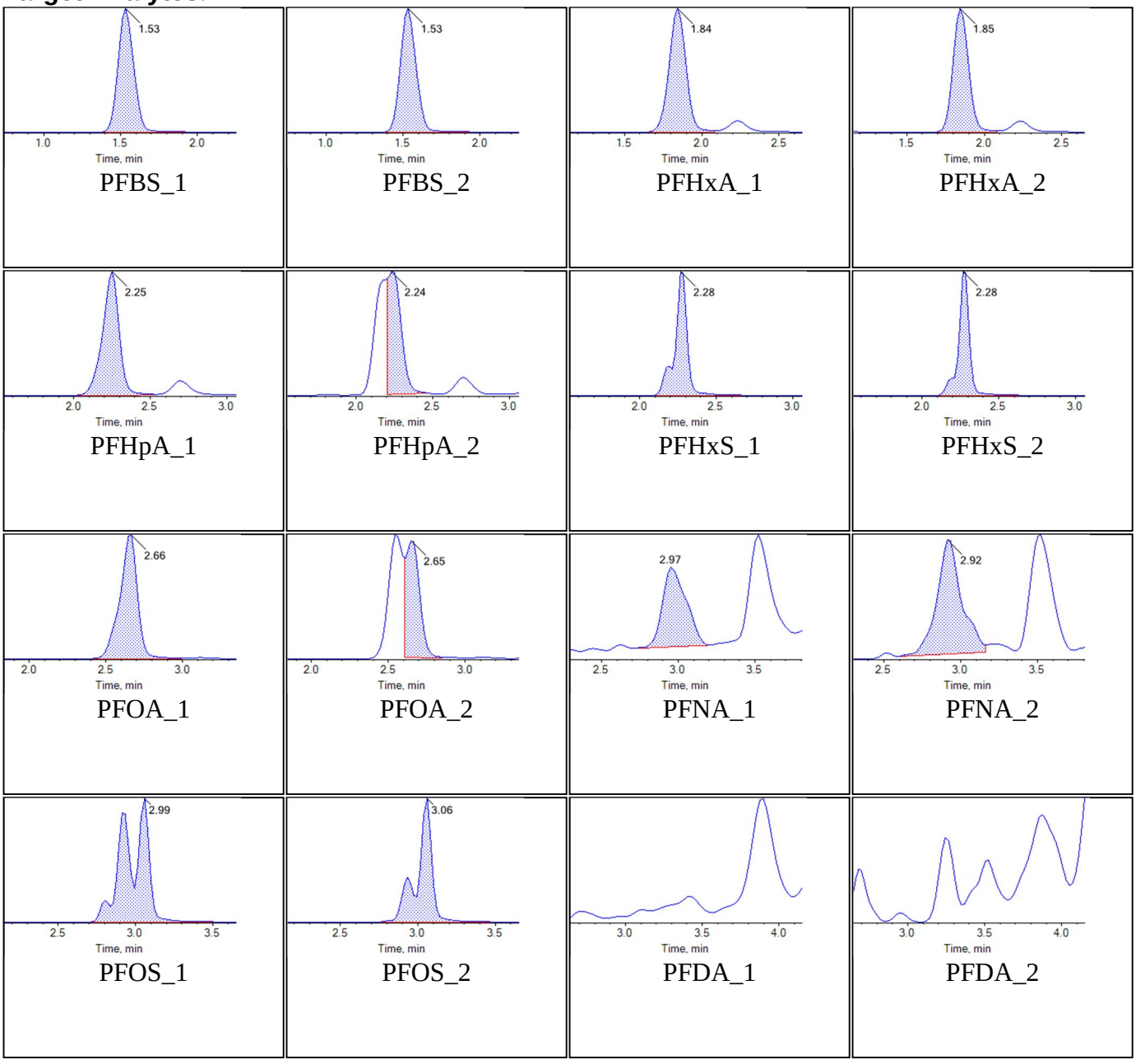

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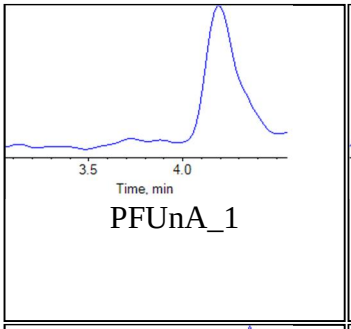

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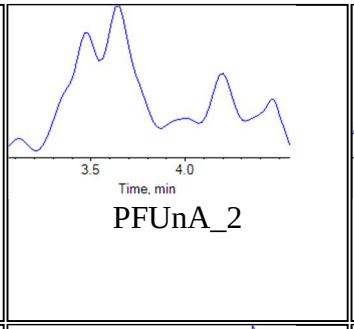

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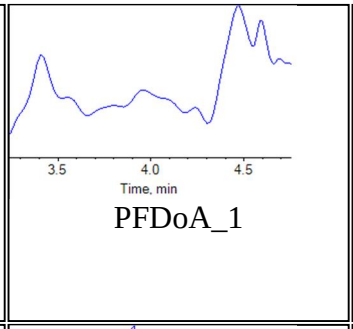

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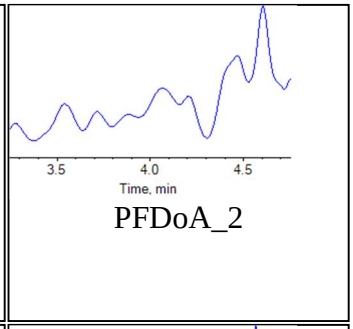

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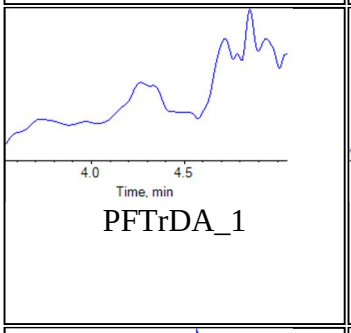

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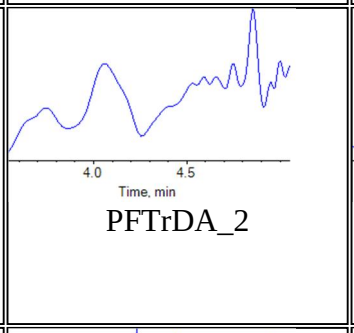

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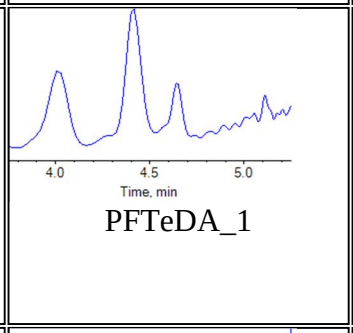

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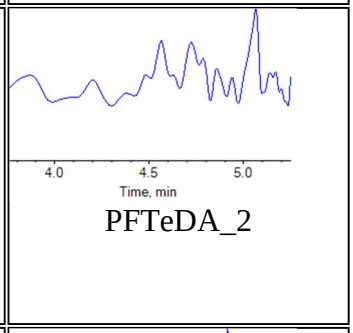

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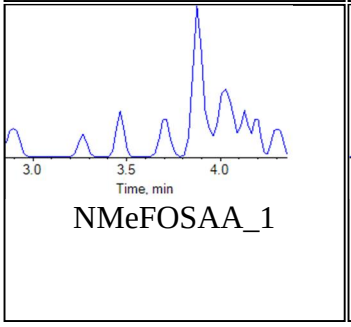

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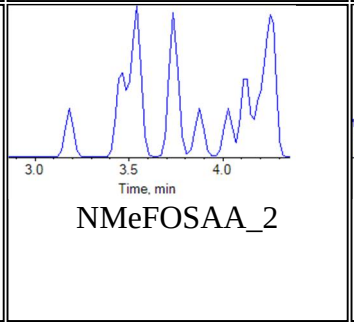

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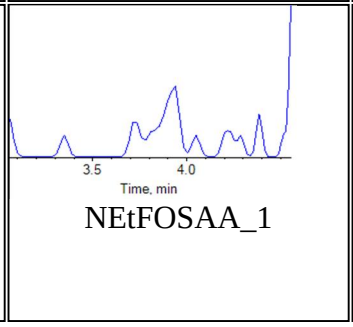

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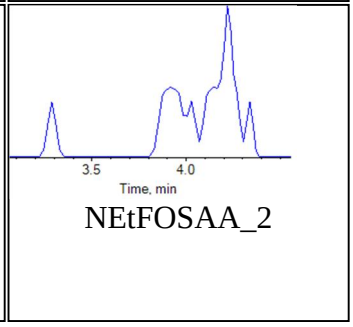

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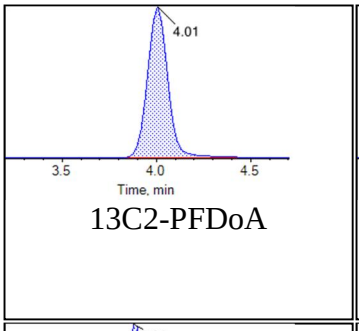

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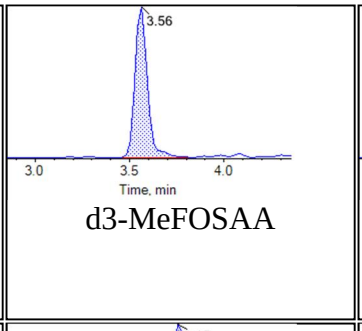

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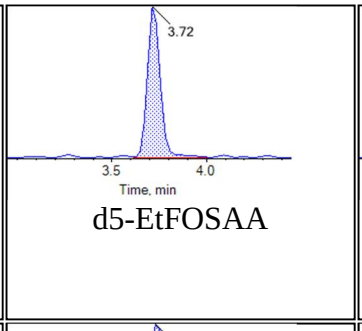
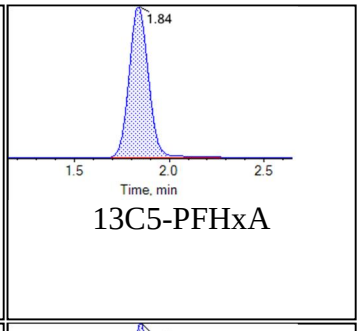
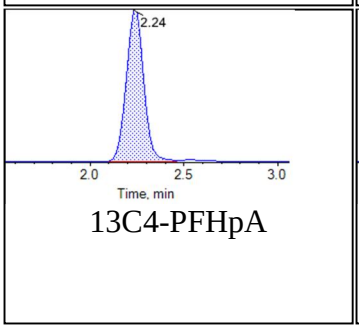


d5-EtFOSAA



13C5-PFHxA



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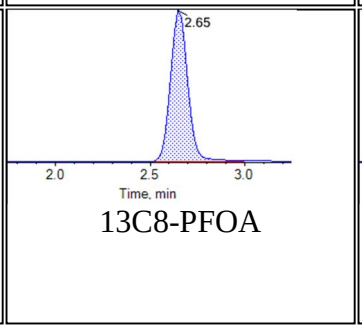

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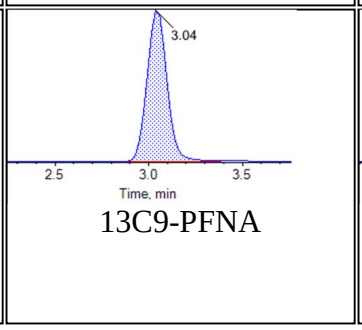
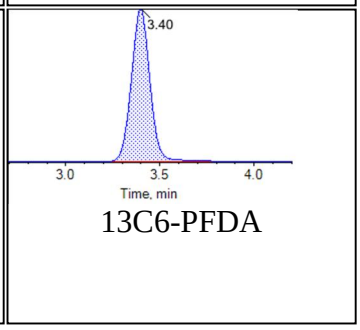


13C9-PFNA



13C6-PFDA

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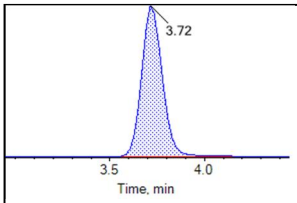
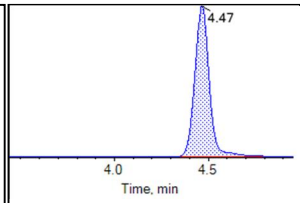
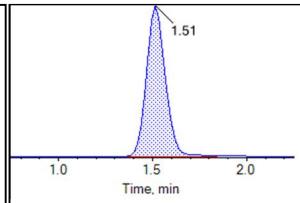


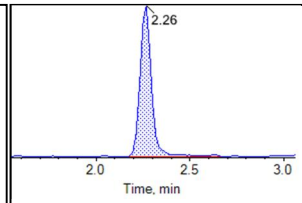

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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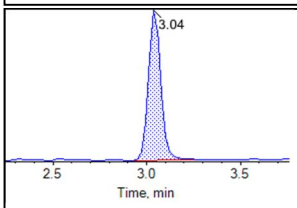


13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(7) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:53:23 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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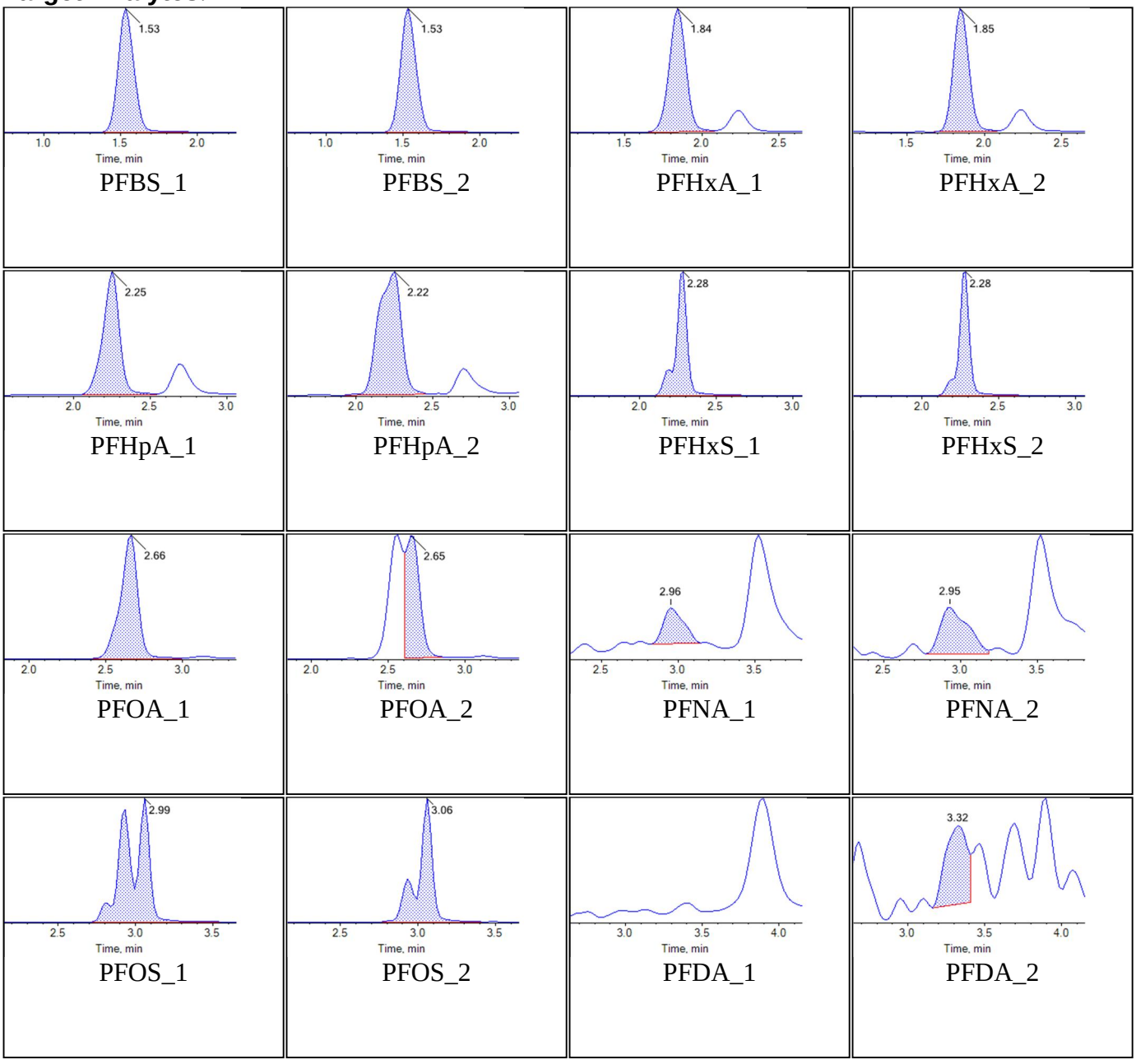

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Chromatogram Report

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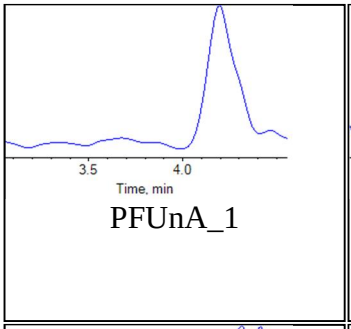

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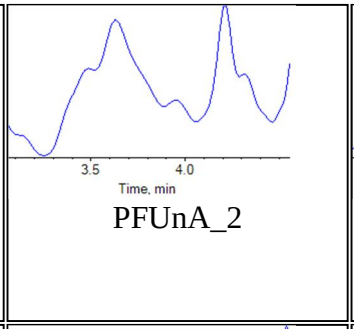
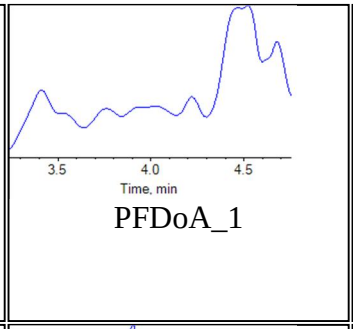
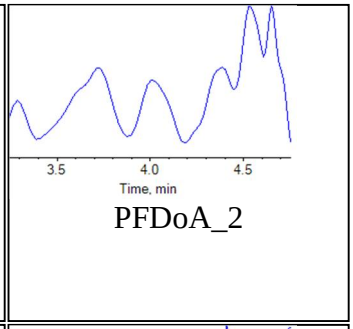


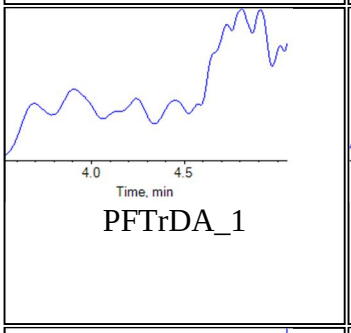
PFUnA_2



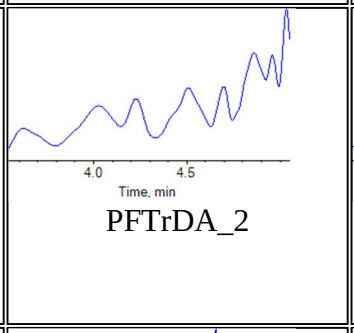
PFDoA_1



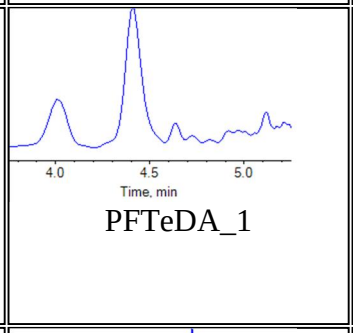
PFDoA_2



PFTrDA_1



PFTrDA_2



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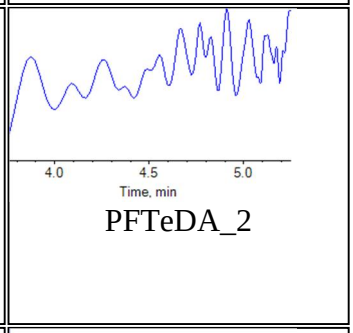
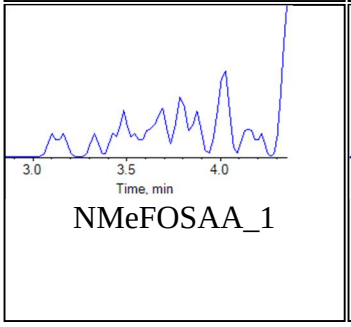
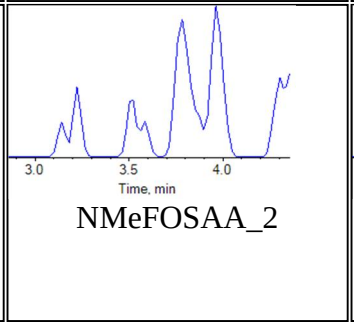


PFTeDA_2



NMeFOSAA_1



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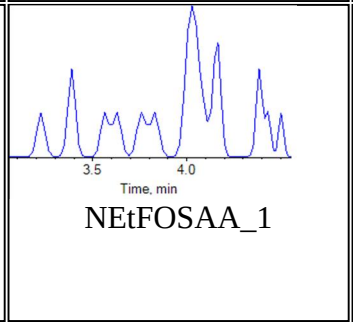

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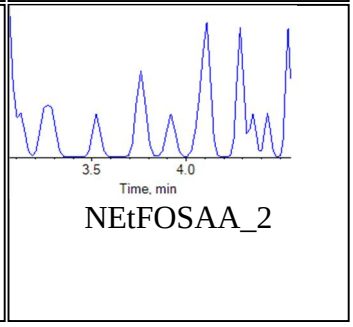

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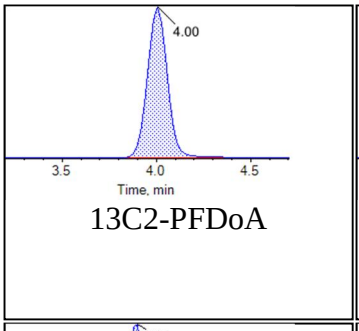
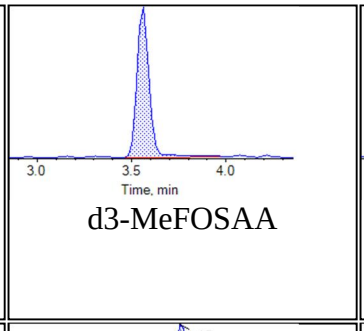
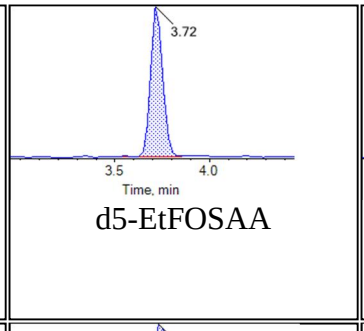


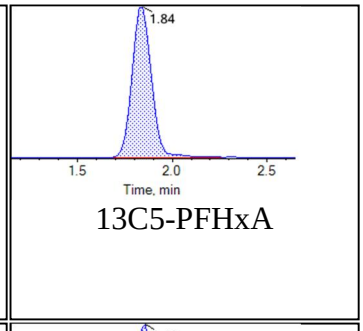
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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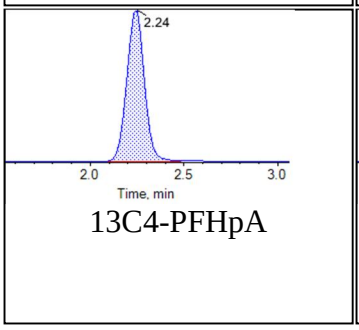

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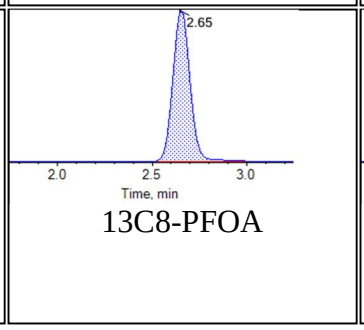
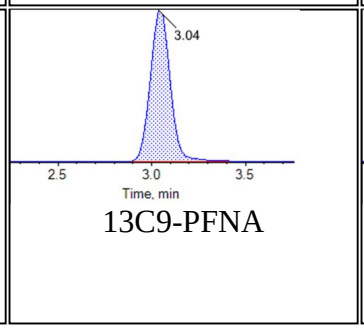
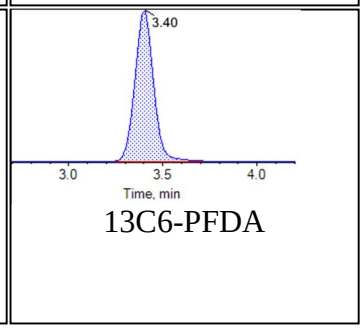


13C8-PFOA



13C9-PFNA



13C6-PFDA

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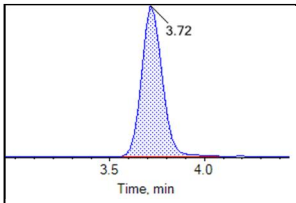
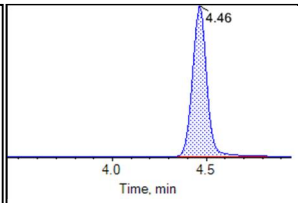



13C7-PFUnA

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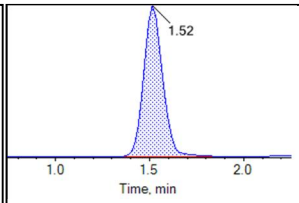
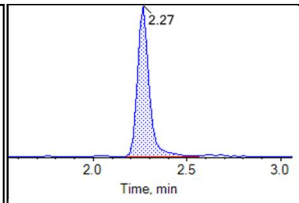



13C3-PFBS

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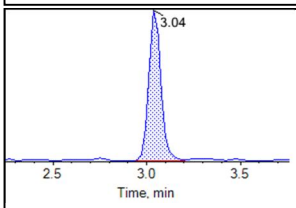


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(9) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:04:15 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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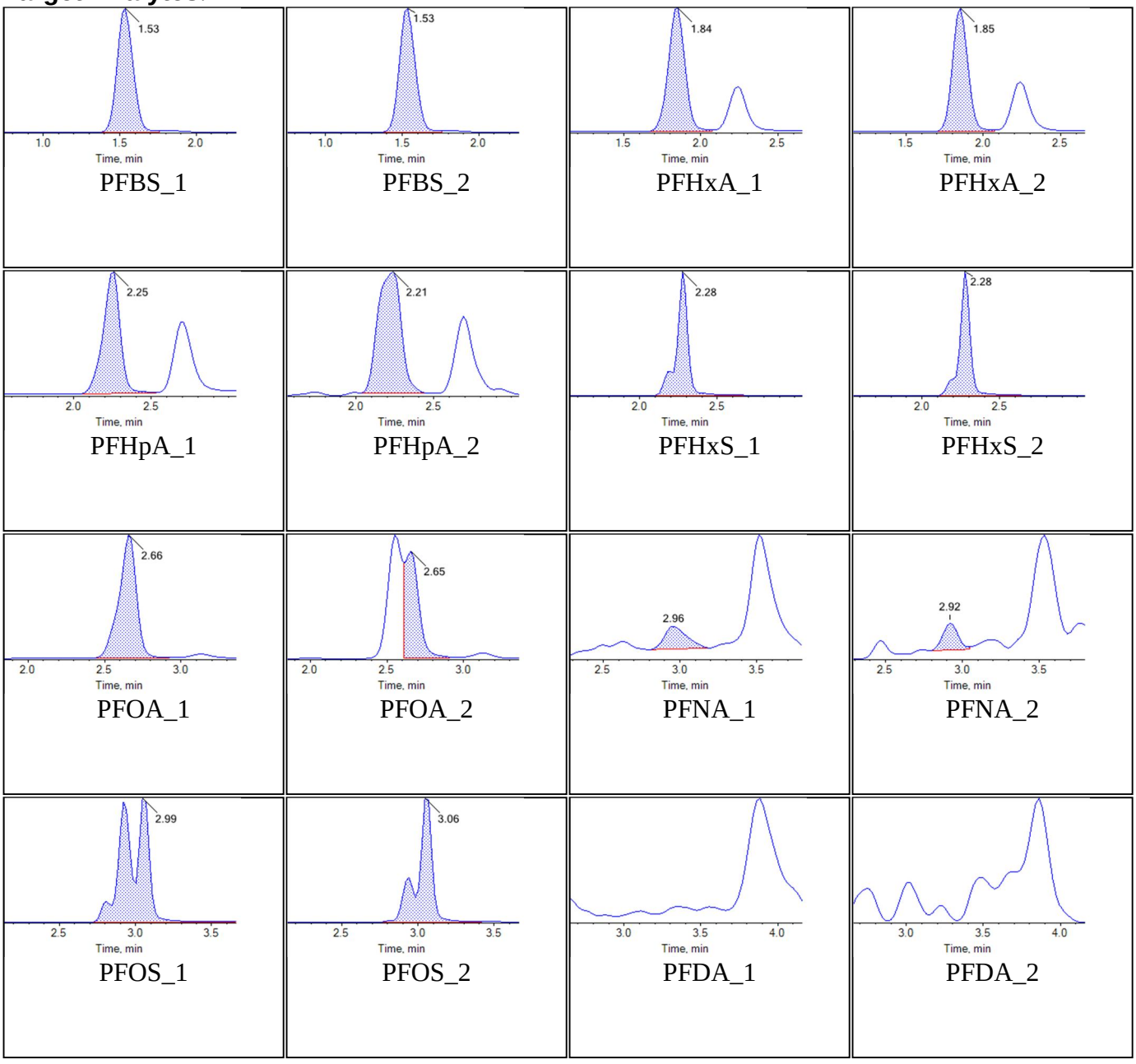

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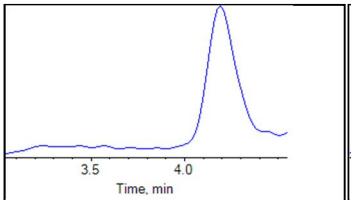

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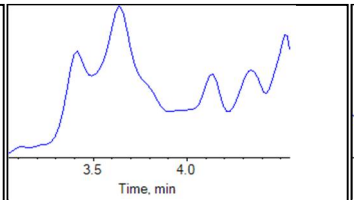

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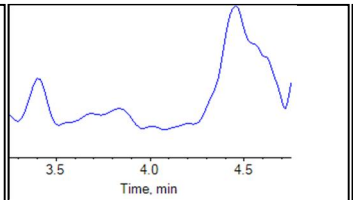

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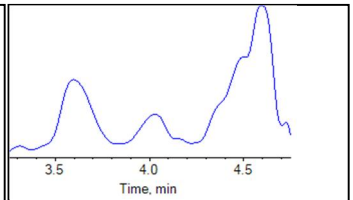
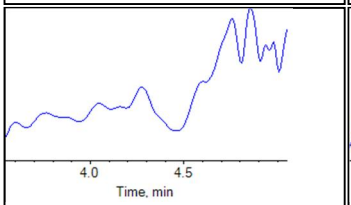


PFDoA_2



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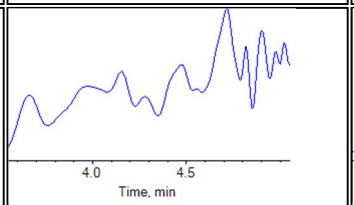

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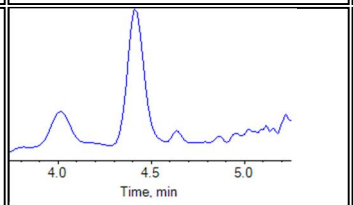

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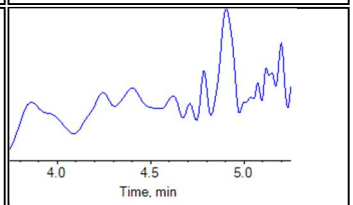

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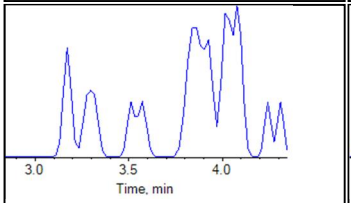

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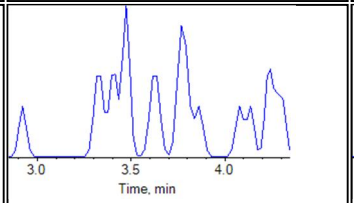

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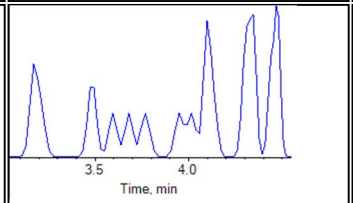

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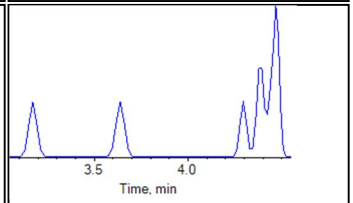

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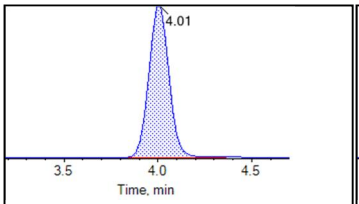

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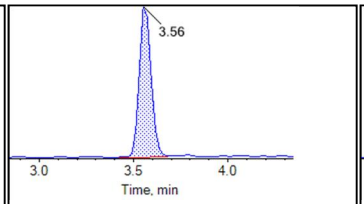

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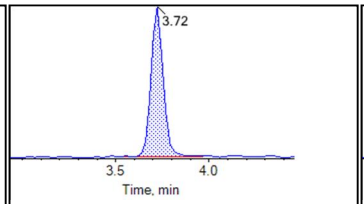
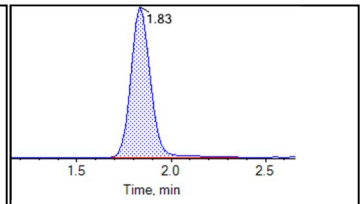
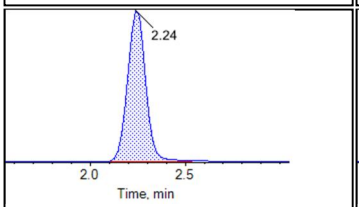


d5-EtFOSAA



13C5-PFHxA



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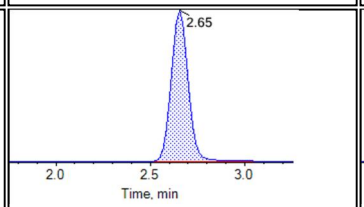

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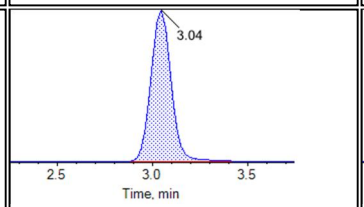
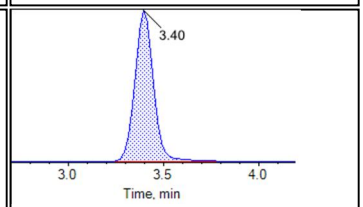


13C9-PFNA



13C6-PFDA

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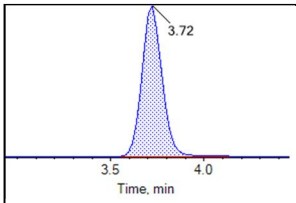
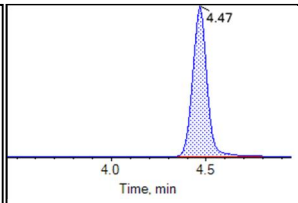



13C7-PFUnA

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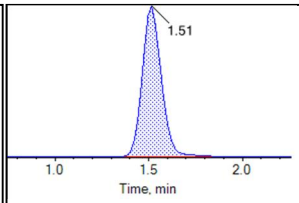


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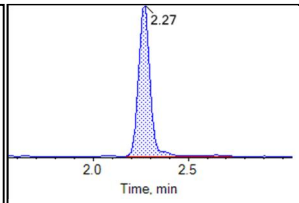


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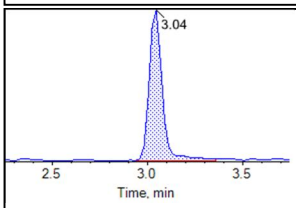


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS(0) | **Injection Vial** | 22 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:15:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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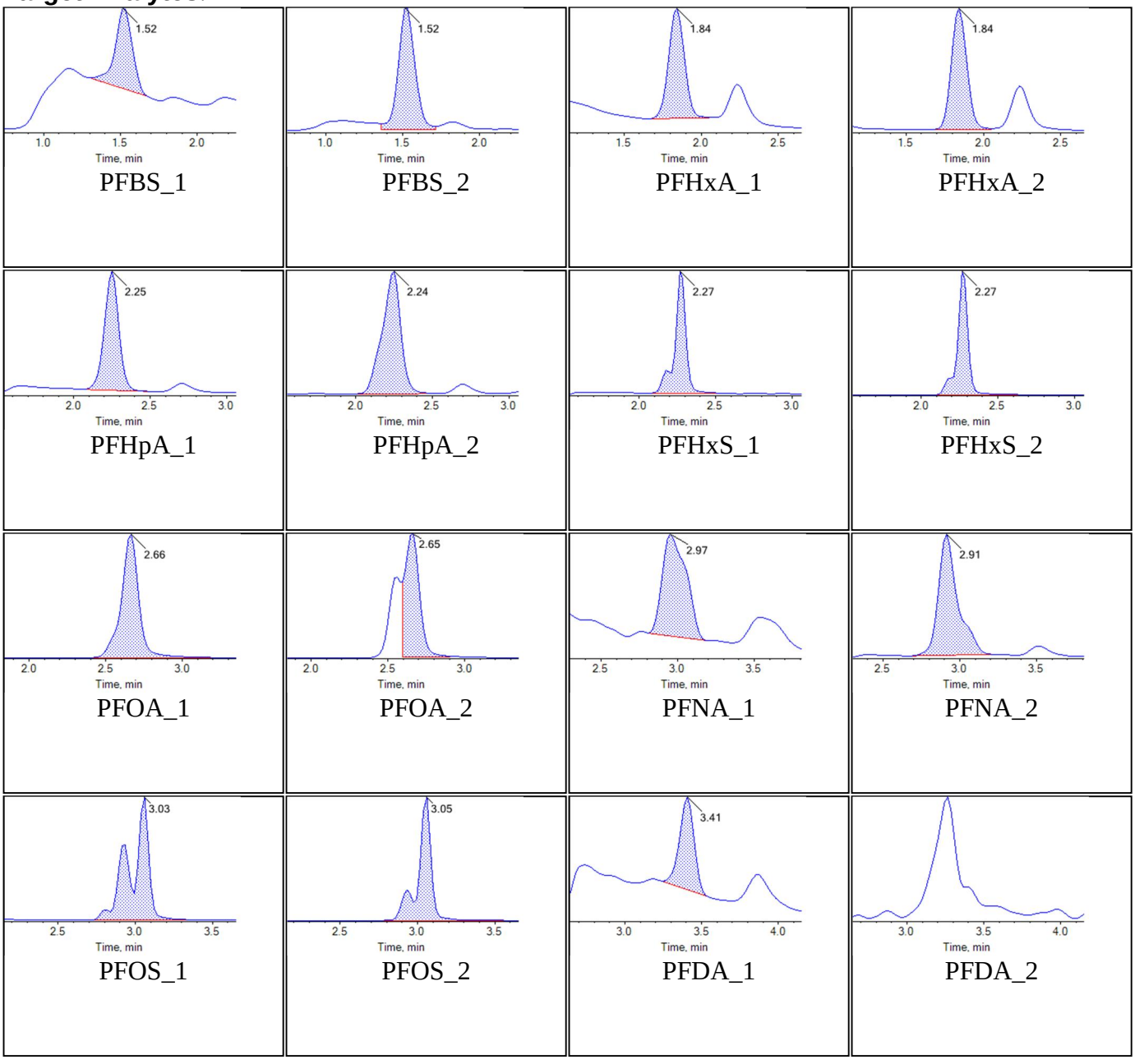

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Chromatogram Report

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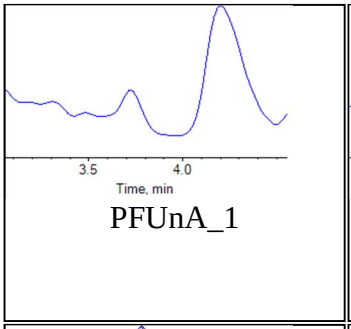

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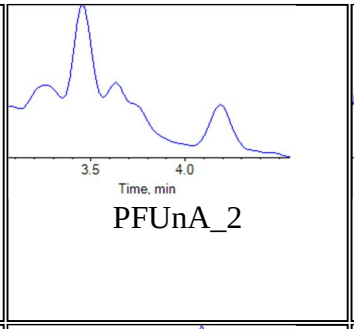

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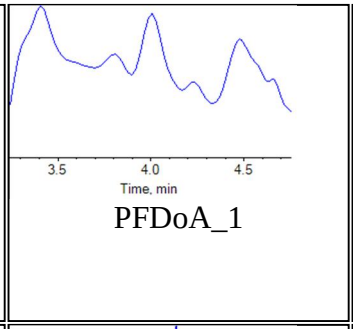

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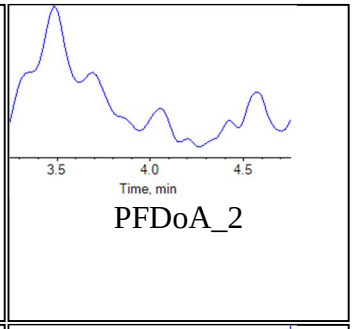
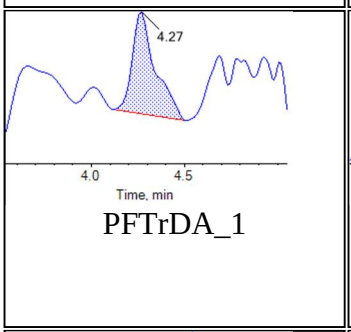


PFDoA_2



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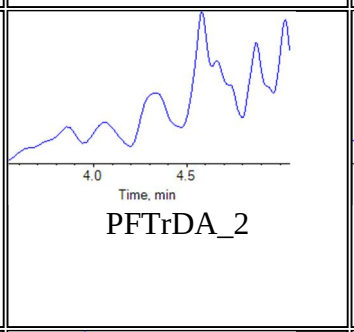
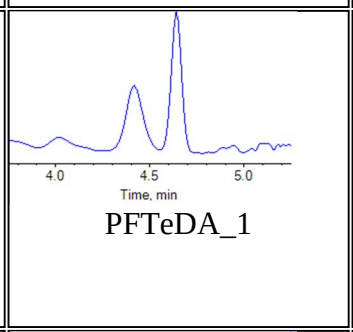


PFTrDA_2



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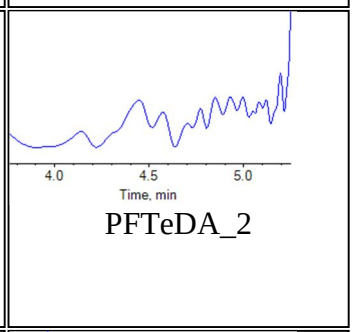

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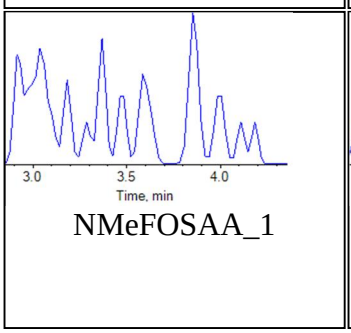

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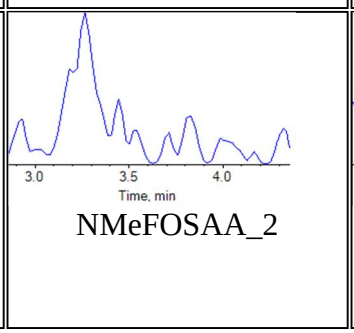

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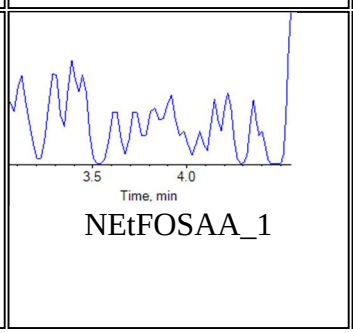

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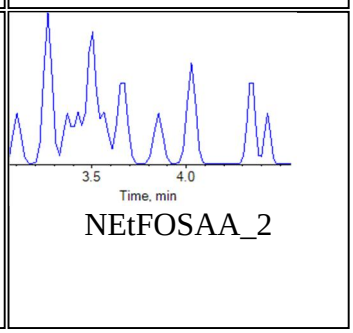

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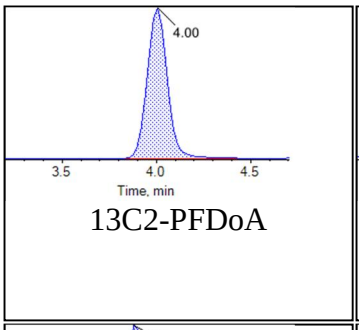

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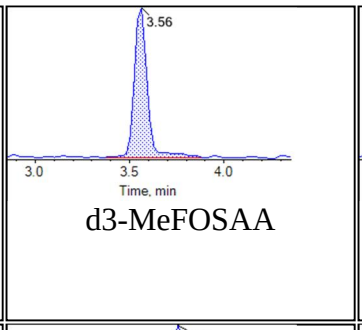
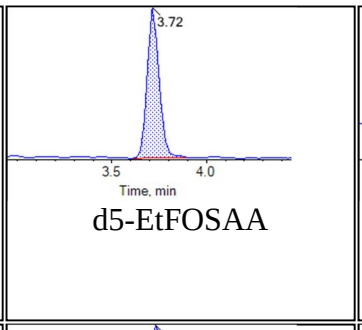


d3-MeFOSAA



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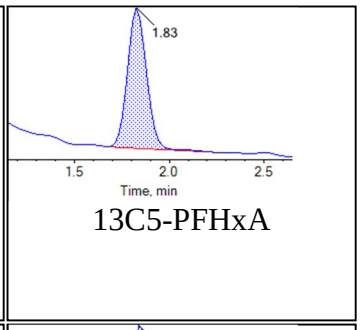

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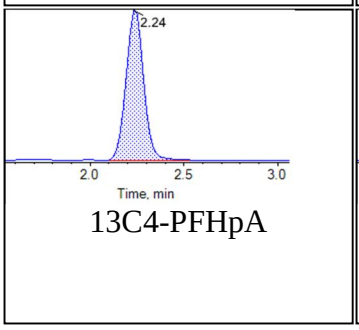

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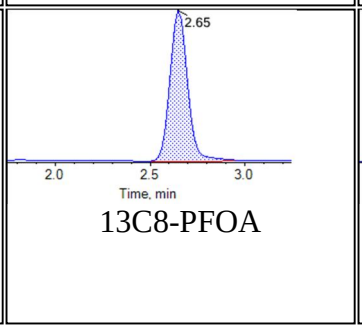

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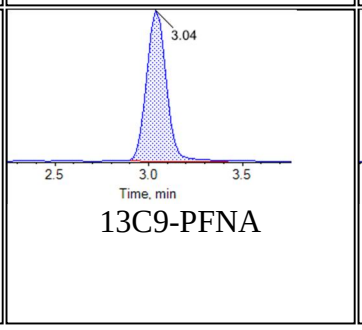

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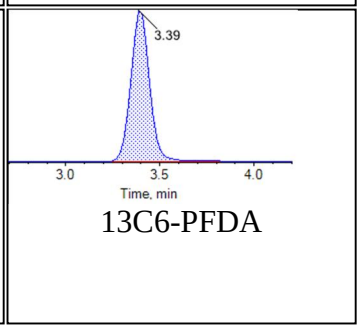

13C6-PFDA

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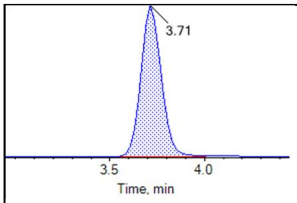
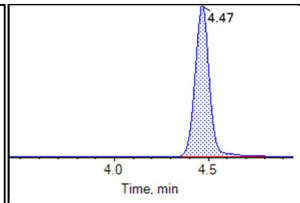



13C7-PFUnA

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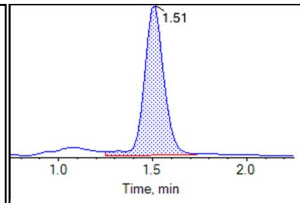


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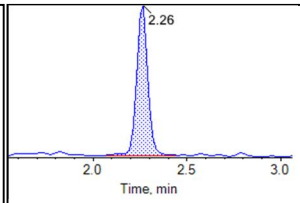


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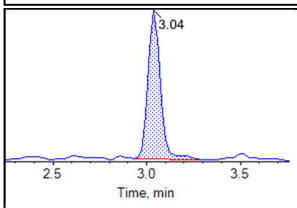


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:49:00 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(3) | **Injection Vial** | 23 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:26:01 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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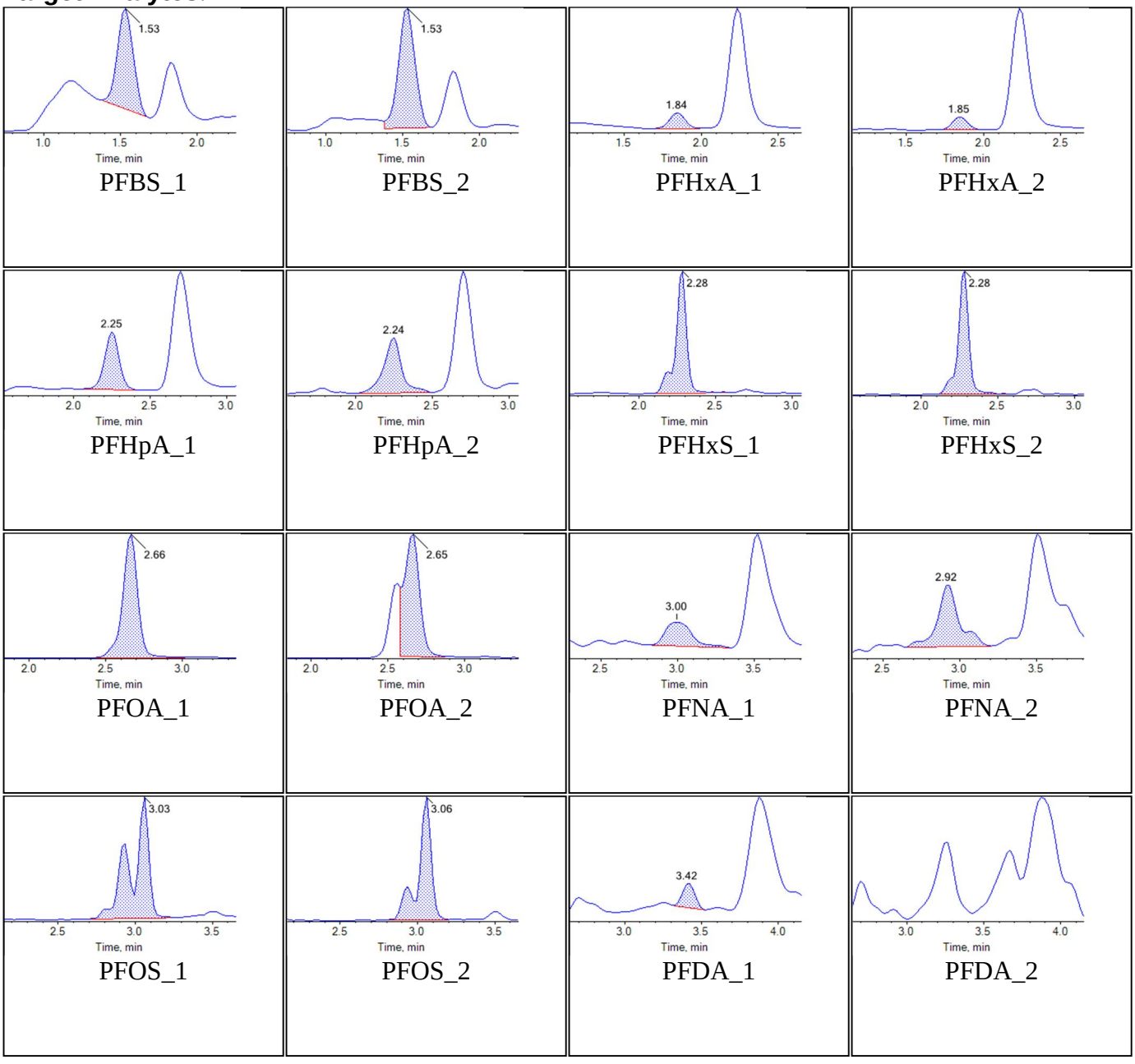

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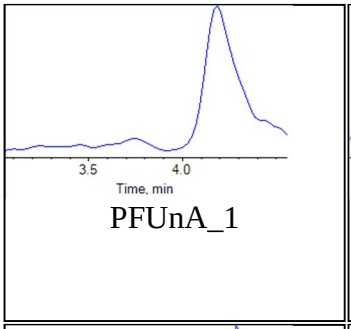

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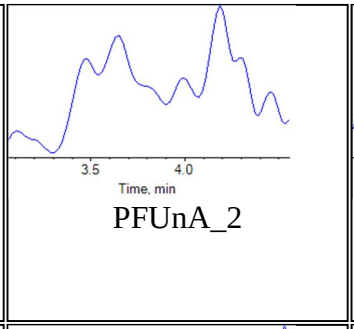

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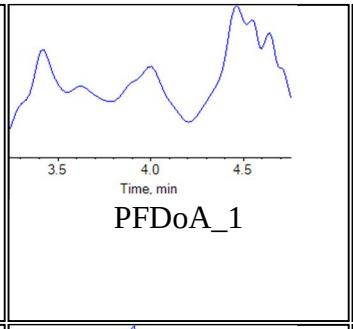

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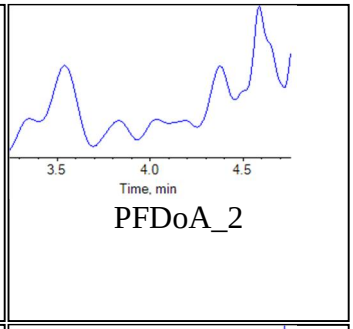

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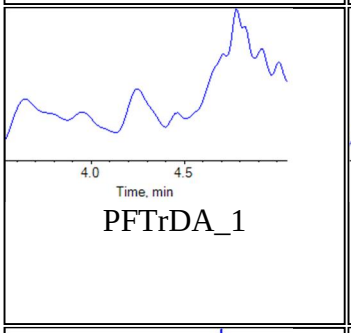

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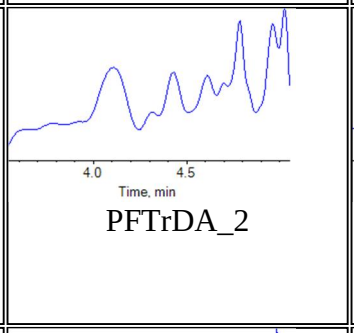

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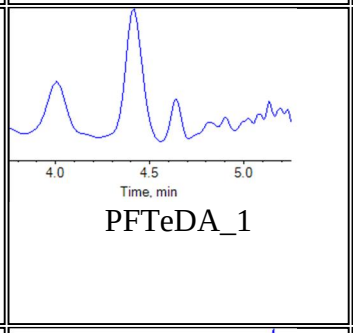

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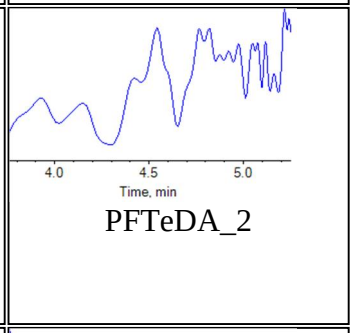

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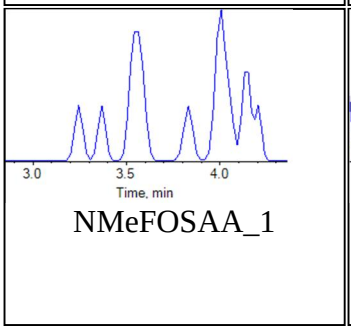

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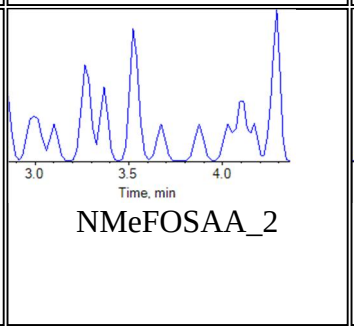

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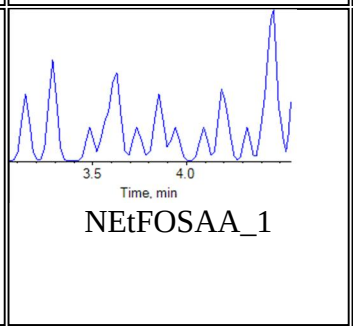

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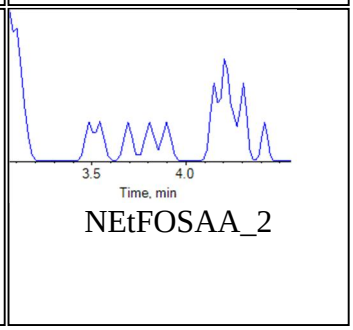

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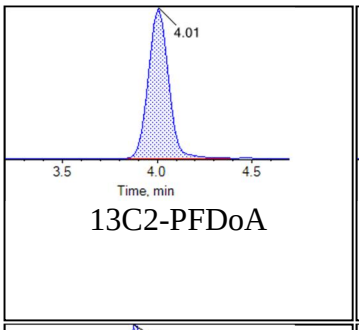

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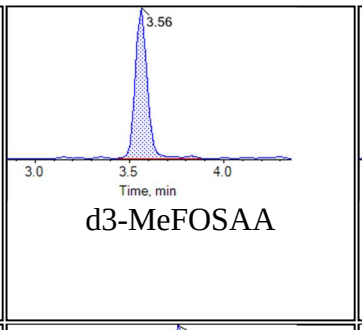

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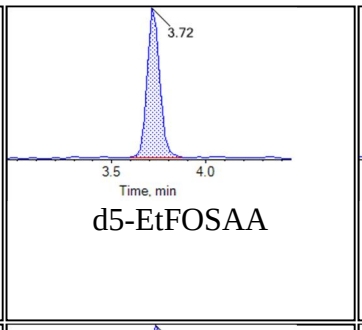
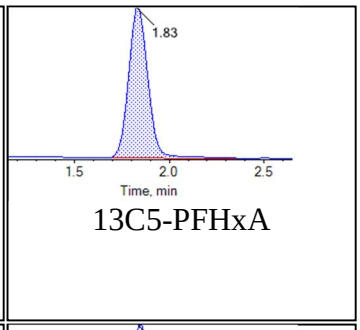
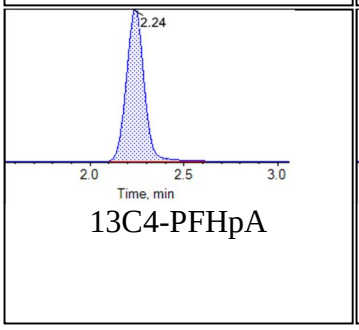


d5-EtFOSAA



13C5-PFHxA



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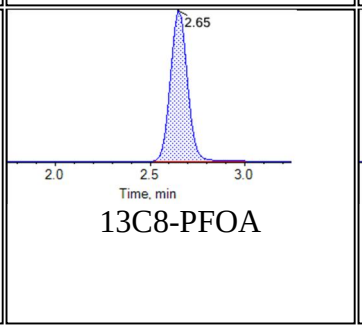

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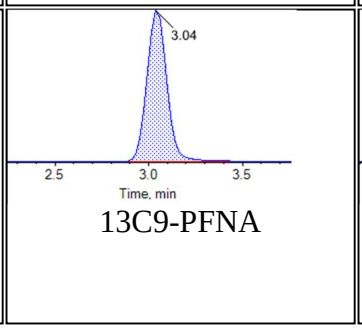

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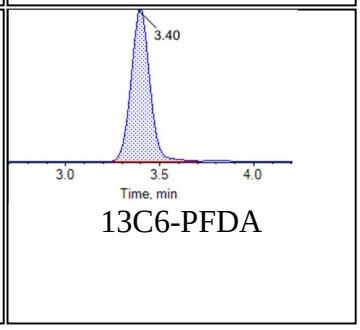

13C6-PFDA

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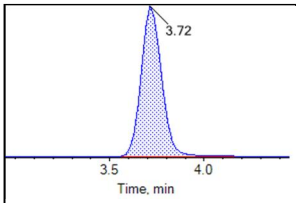
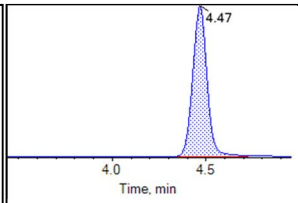



13C7-PFUnA

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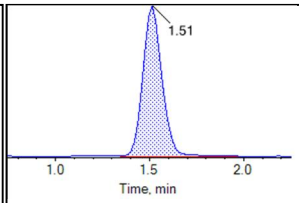


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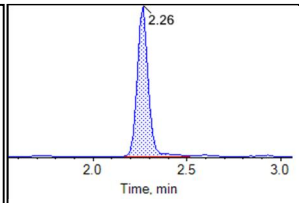


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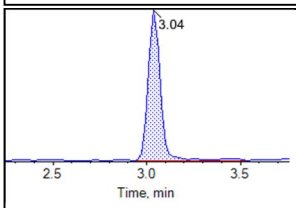


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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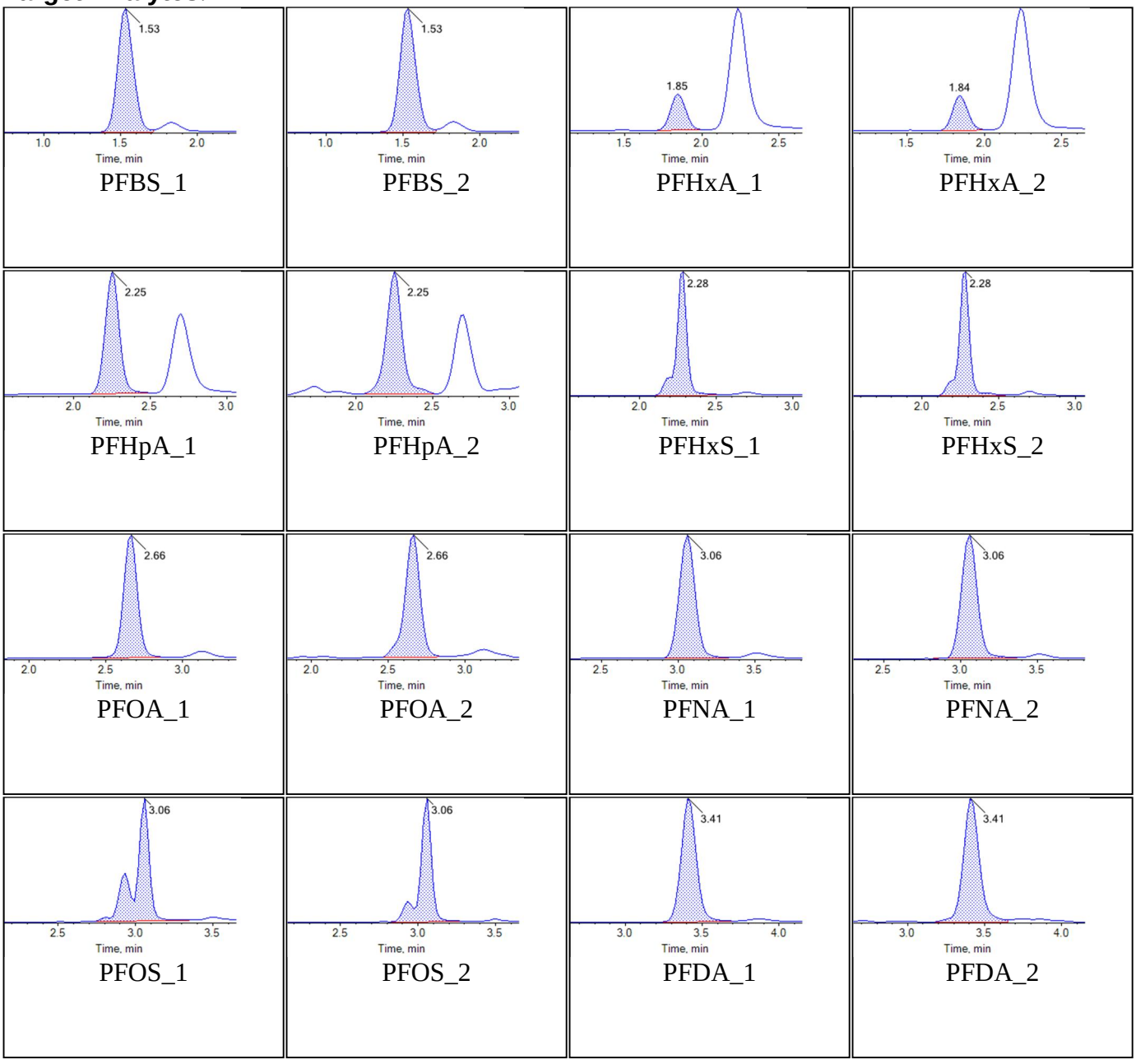

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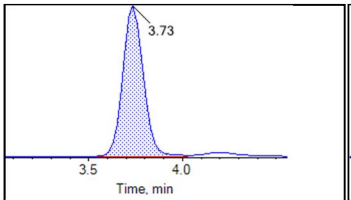

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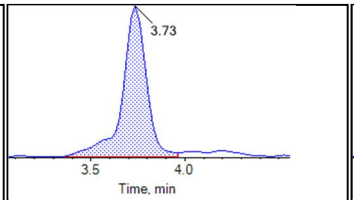

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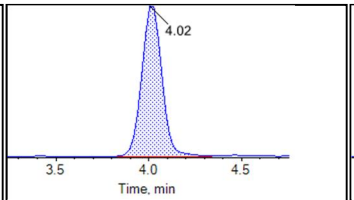
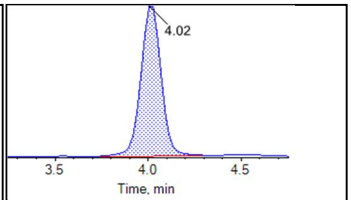
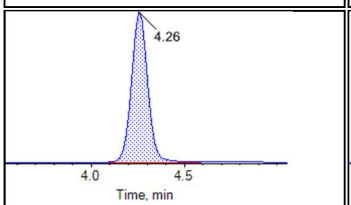


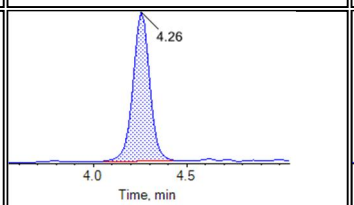
PFDoA_1



PFDoA_2



PFTrDA_1



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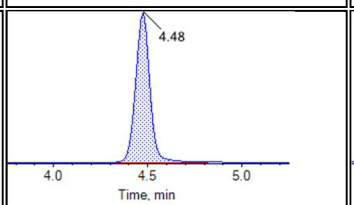

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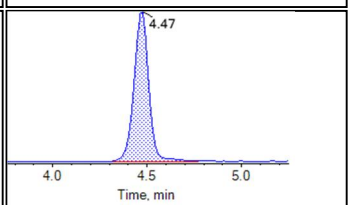

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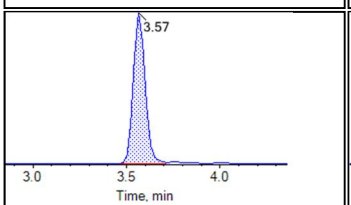

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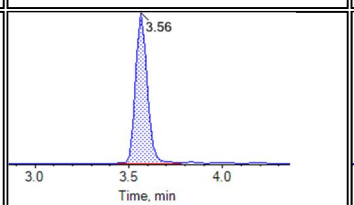

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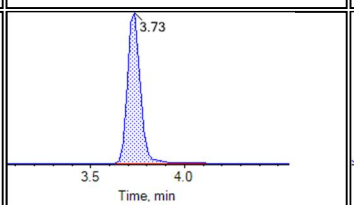

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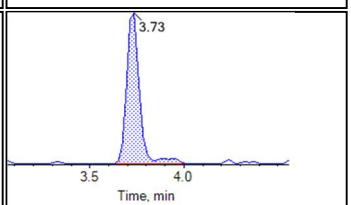

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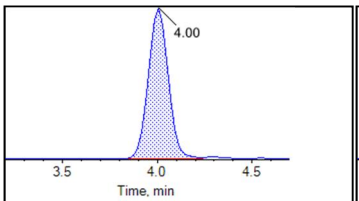

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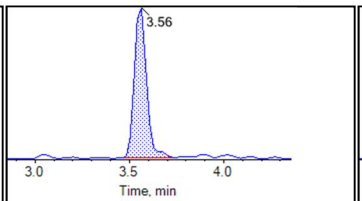
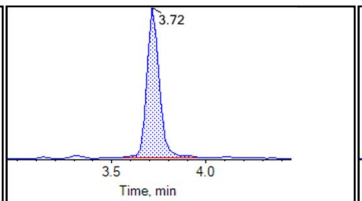


d3-MeFOSAA



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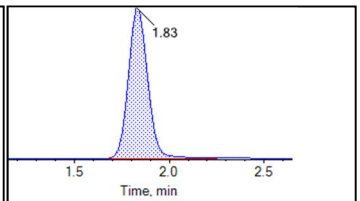

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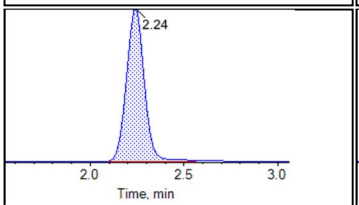

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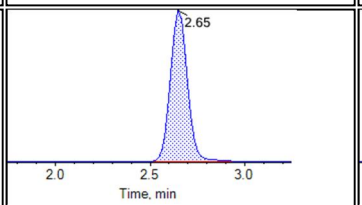

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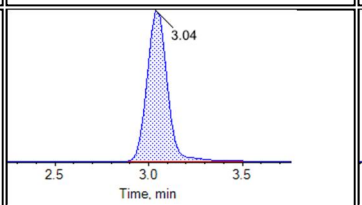

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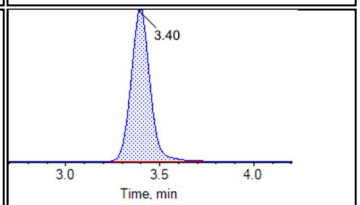

13C6-PFDA

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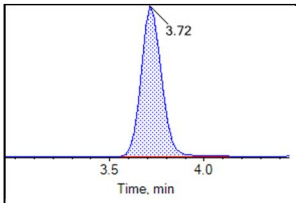
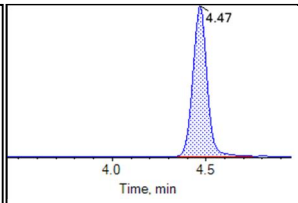



13C7-PFUnA

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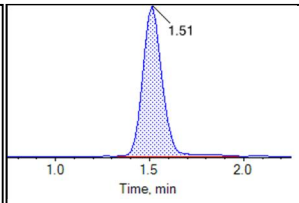
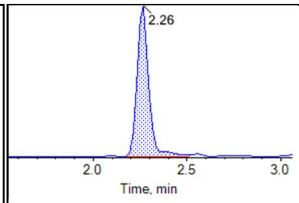



13C3-PFBS

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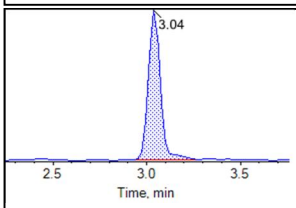


13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:49:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:58:39 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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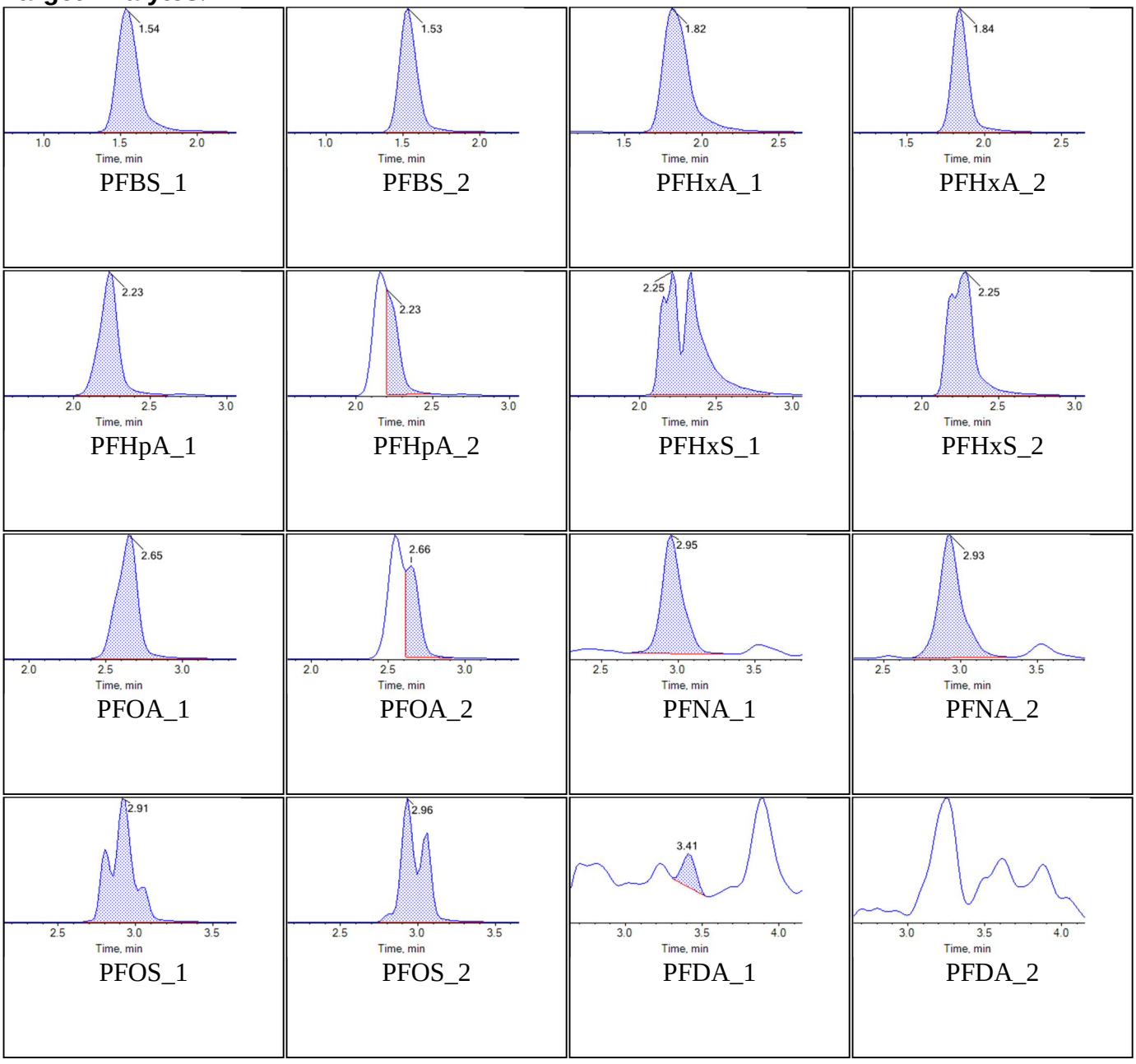

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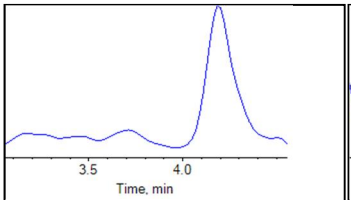

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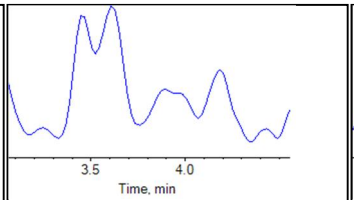

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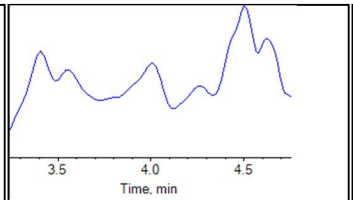

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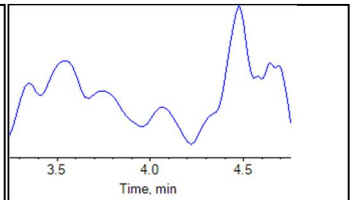

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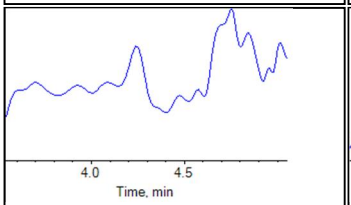

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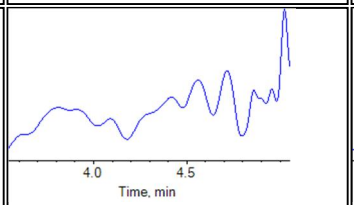

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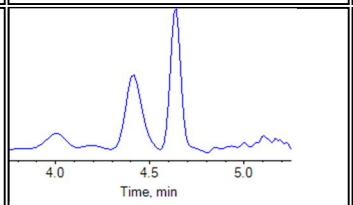

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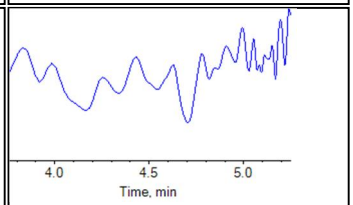

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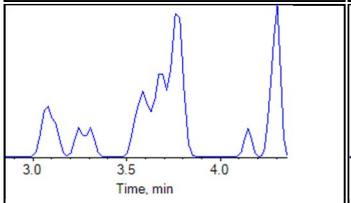

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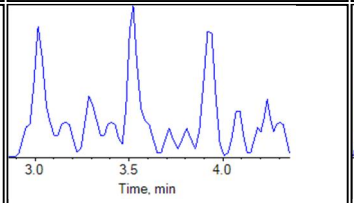

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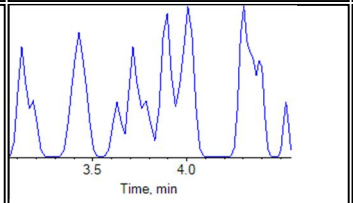

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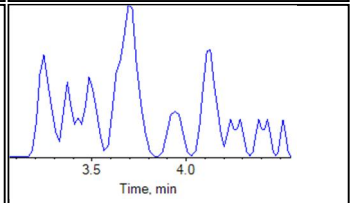

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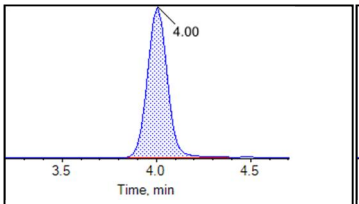

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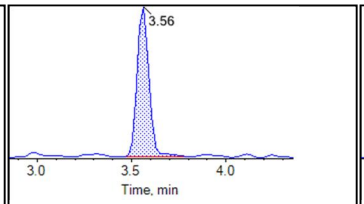
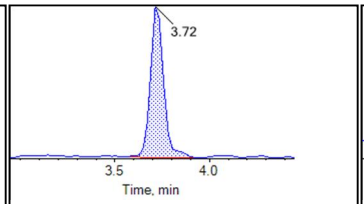
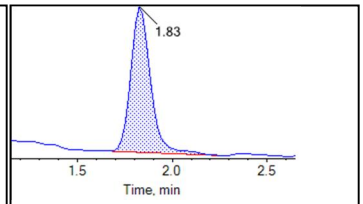


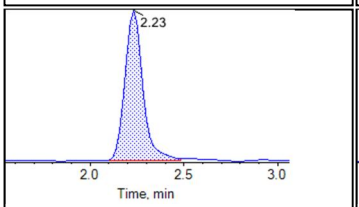
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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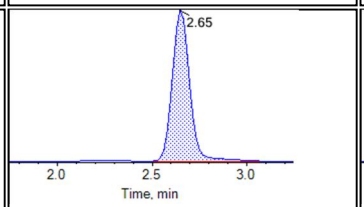

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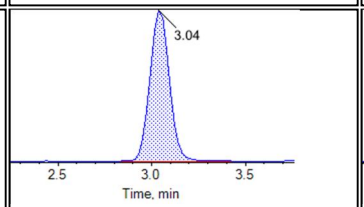

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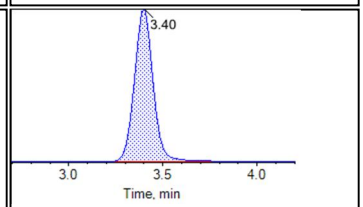

13C6-PFDA

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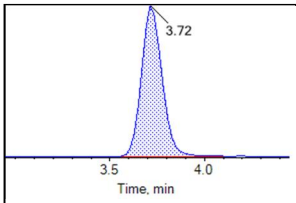
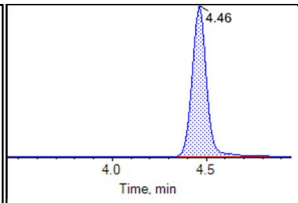
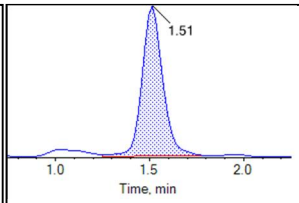



13C7-PFUnA




13C2-PFTeDA

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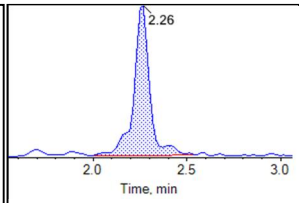


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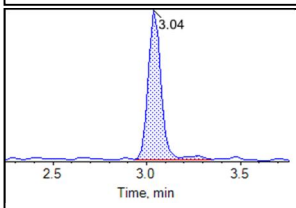


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(3) | **Injection Vial** | 27 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:09:29 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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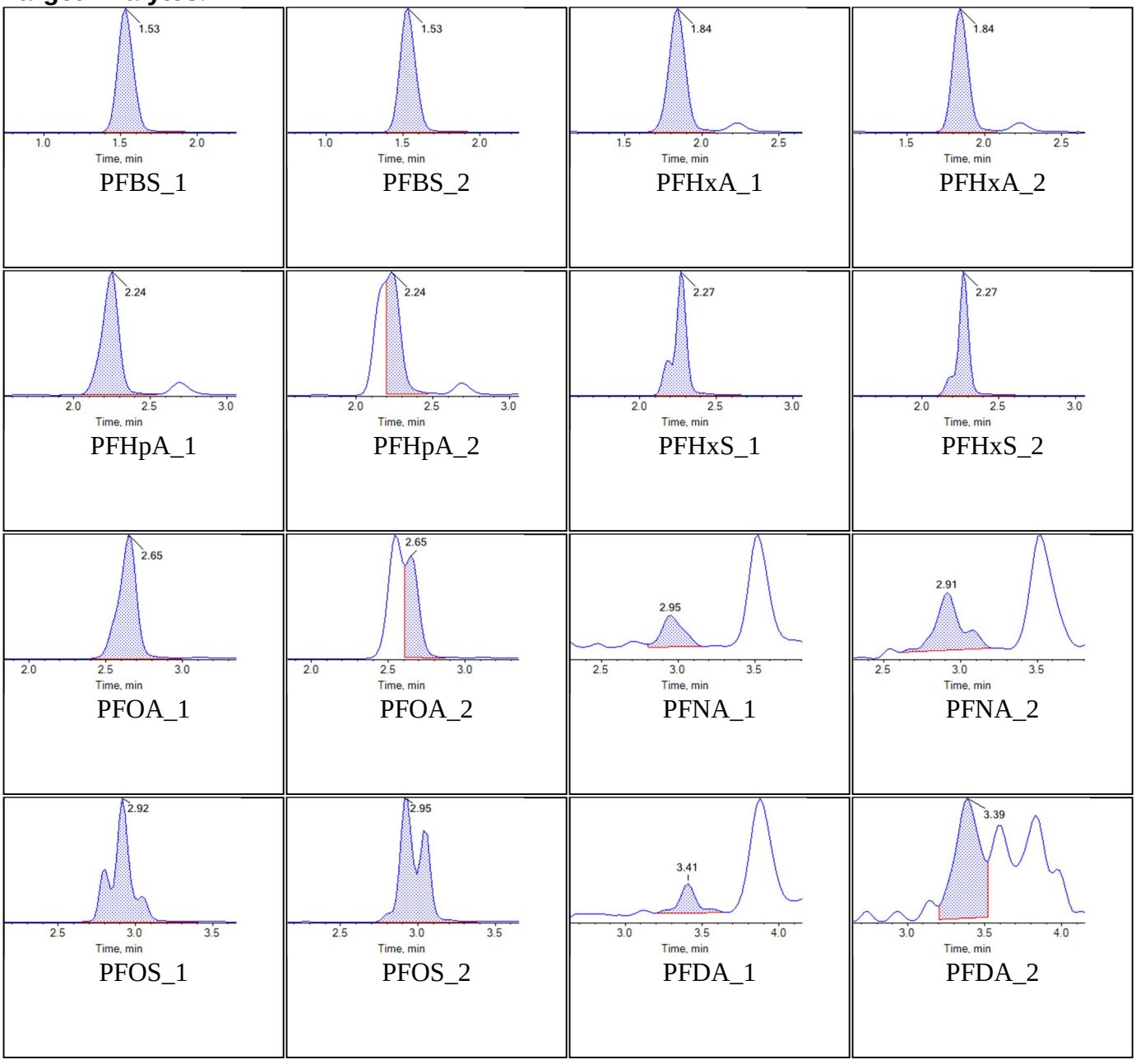

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Chromatogram Report

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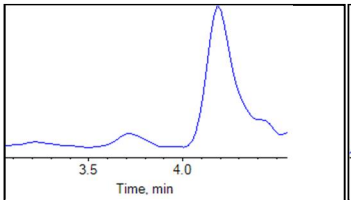

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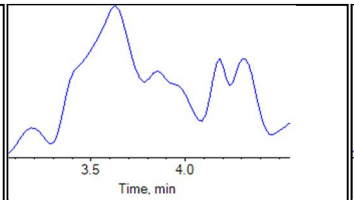

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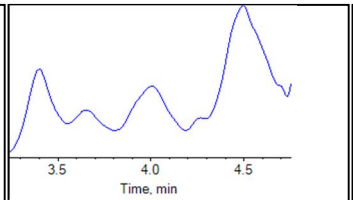
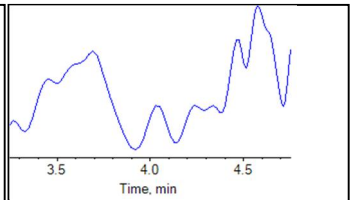


PFDoA_1



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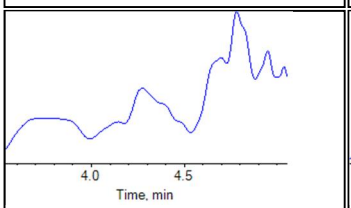

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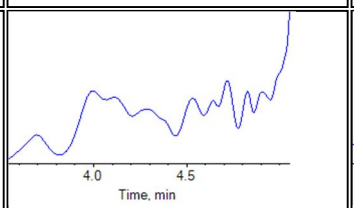

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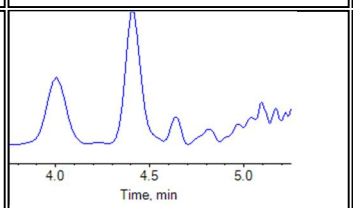

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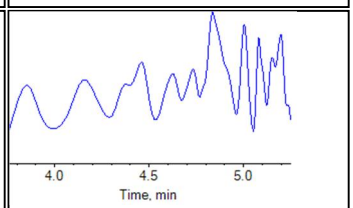

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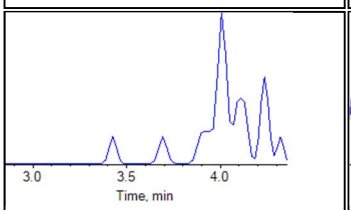
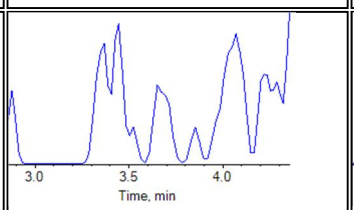


NMeFOSAA_1



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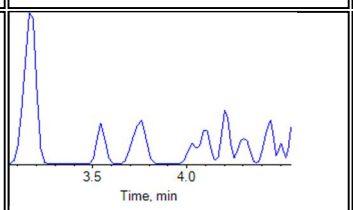

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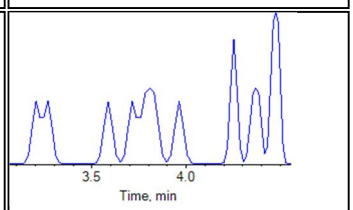

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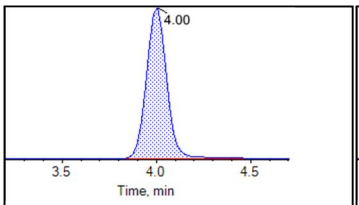
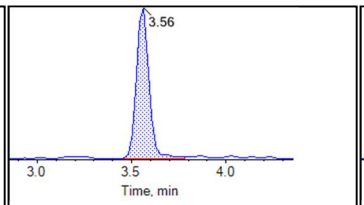
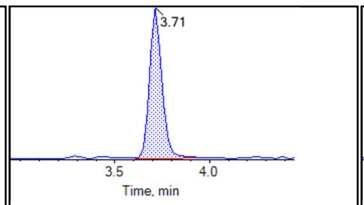


13C2-PFDoA



d3-MeFOSAA



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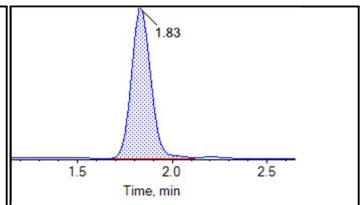

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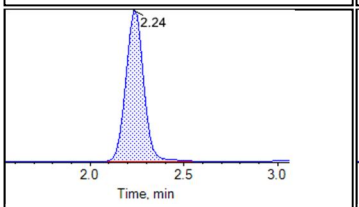

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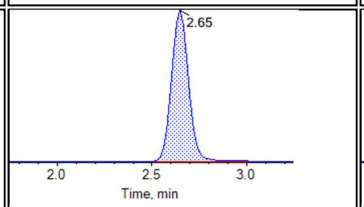
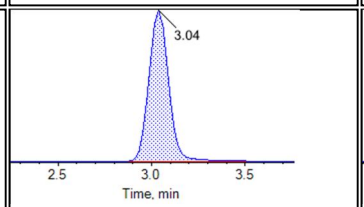
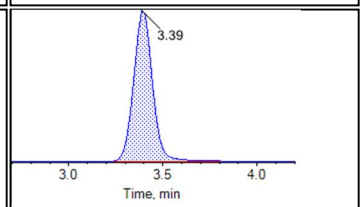


13C8-PFOA



13C9-PFNA



13C6-PFDA

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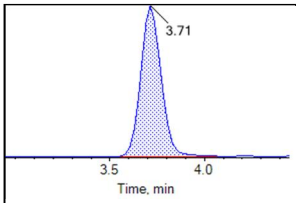
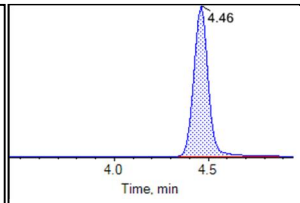



13C7-PFUnA

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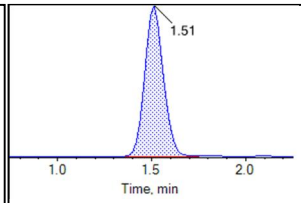
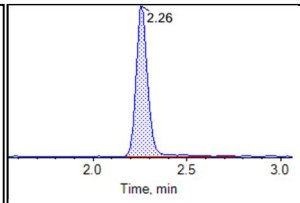



13C3-PFBS

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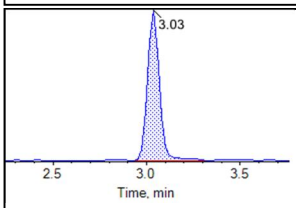


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:20:22 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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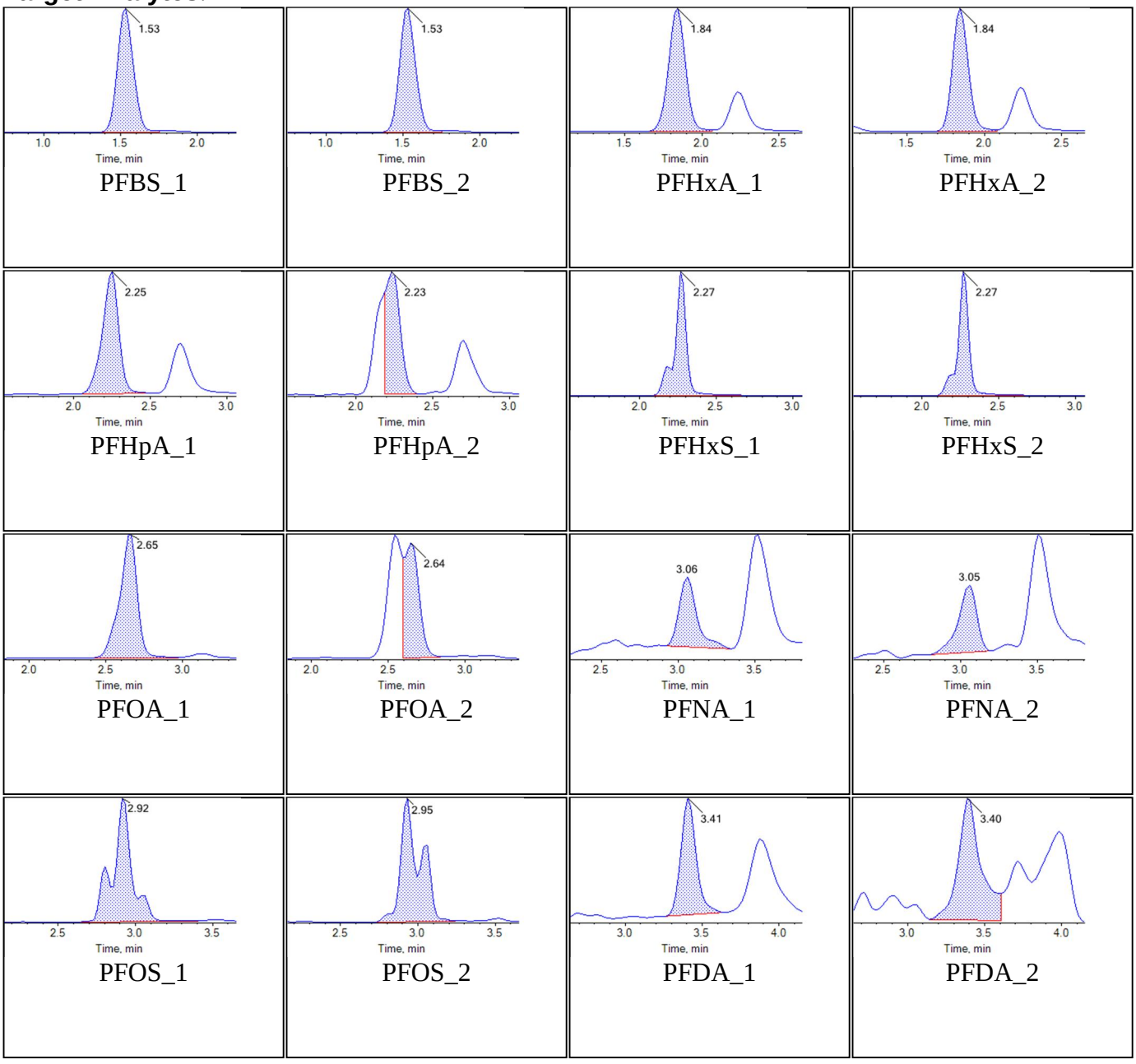

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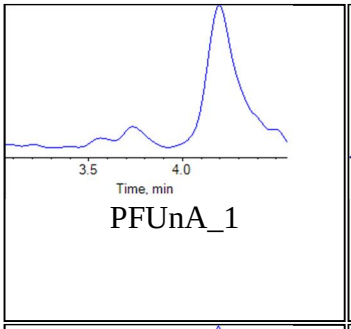

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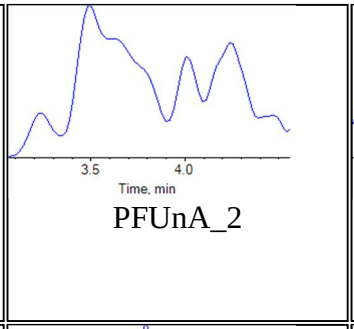

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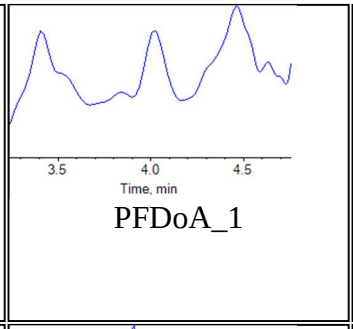

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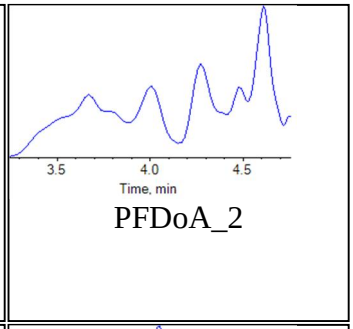

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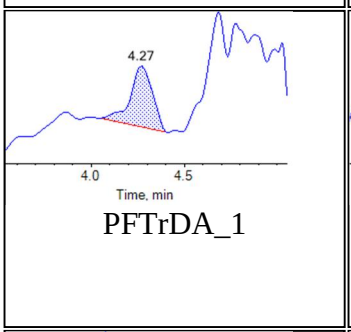
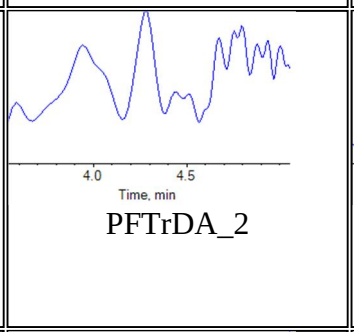


PFTrDA_1



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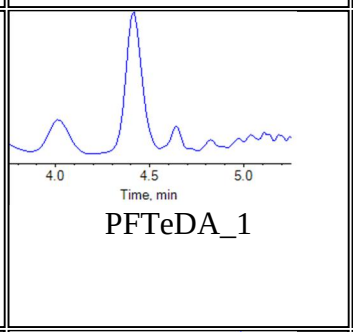

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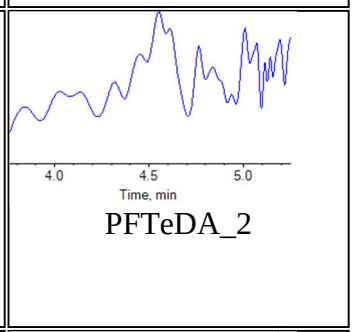

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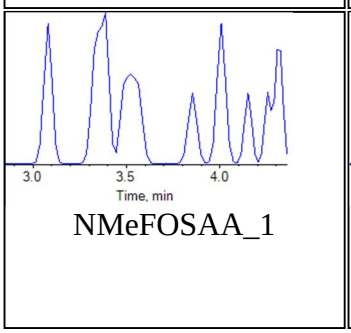

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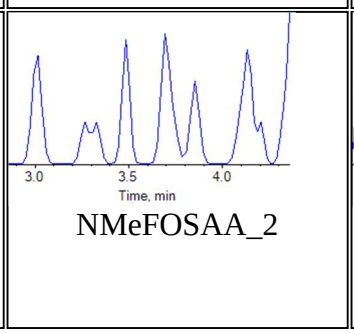

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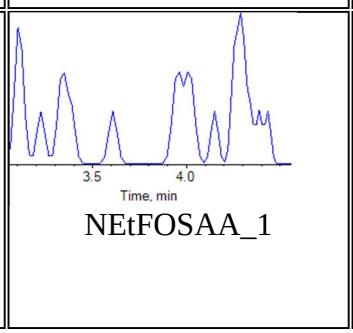
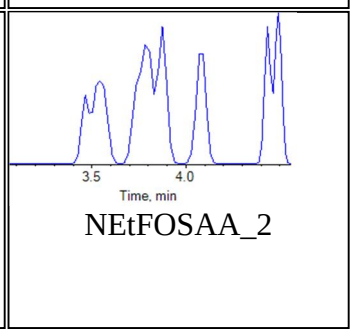


NEtFOSAA_1



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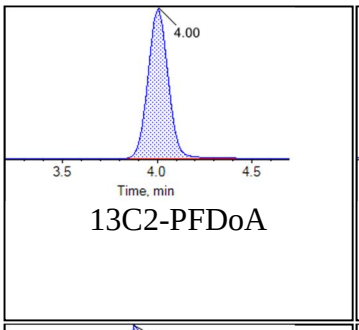

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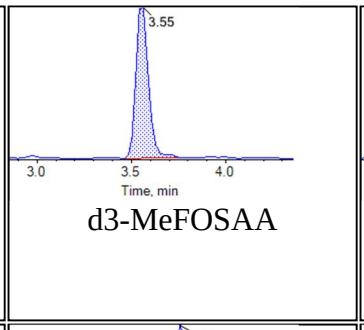
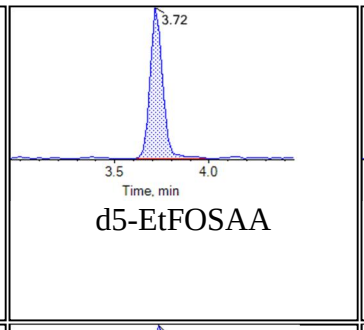
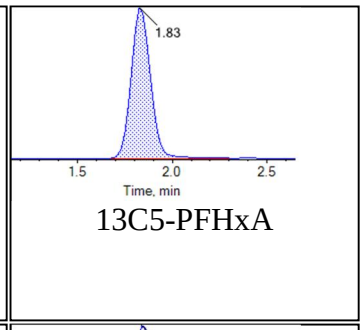


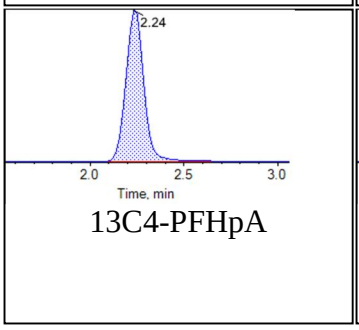
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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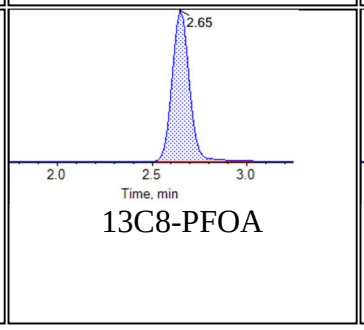

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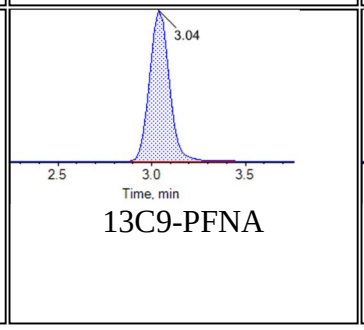
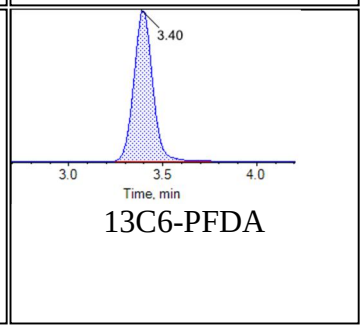


13C9-PFNA



13C6-PFDA

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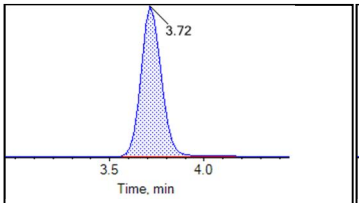
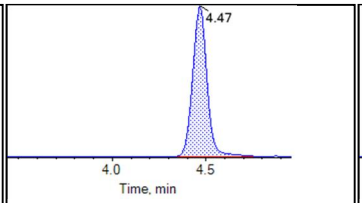



13C7-PFUnA

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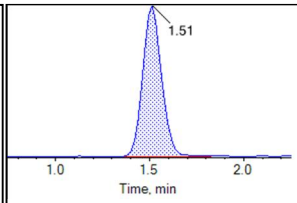
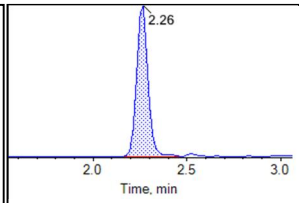



13C3-PFBS

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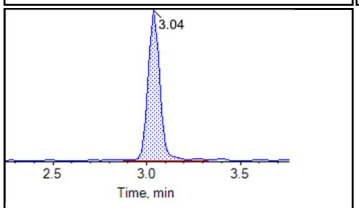


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(7) | **Injection Vial** | 29 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:31:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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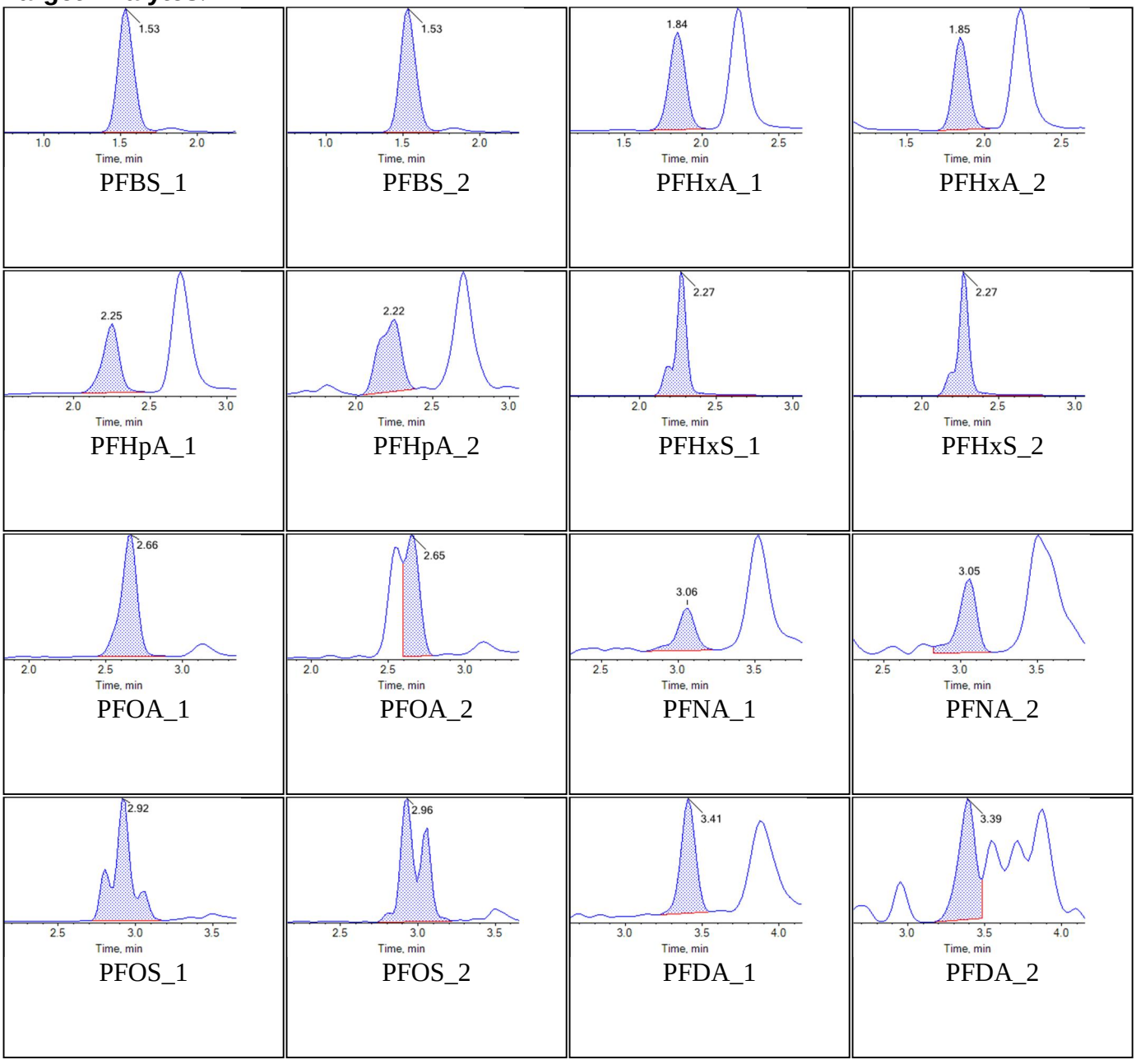

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Chromatogram Report

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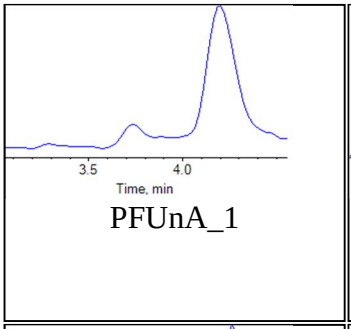
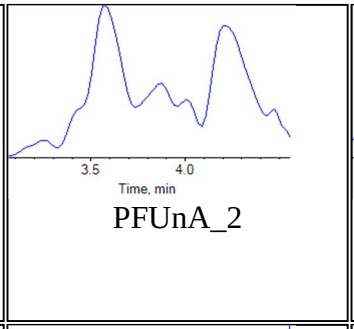


PFUnA_1



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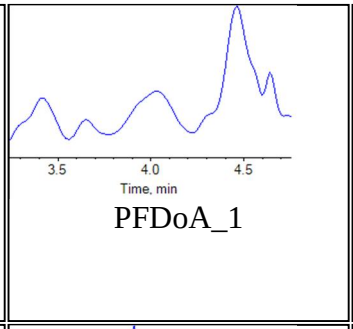

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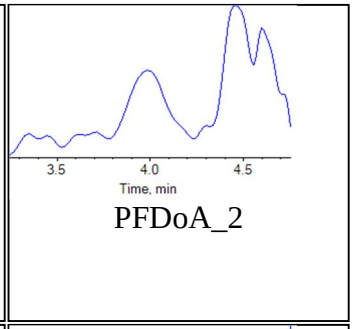

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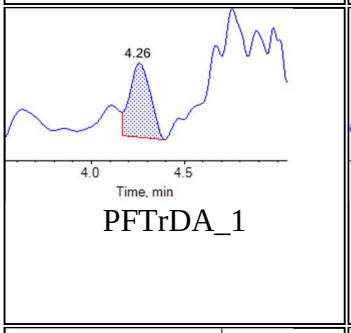

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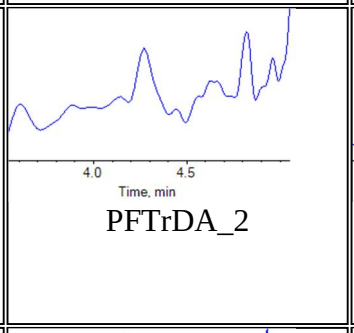

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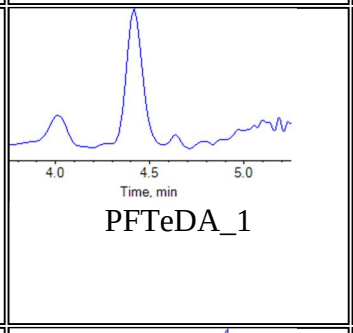

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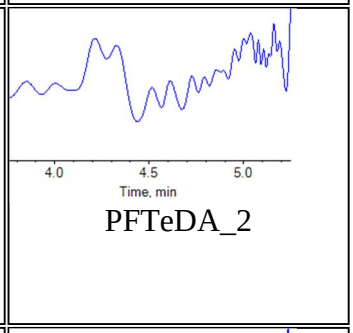

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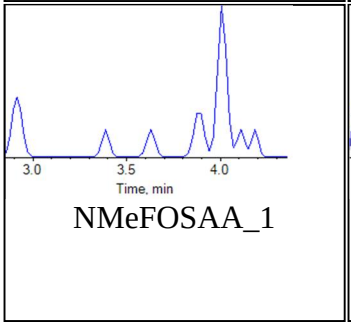

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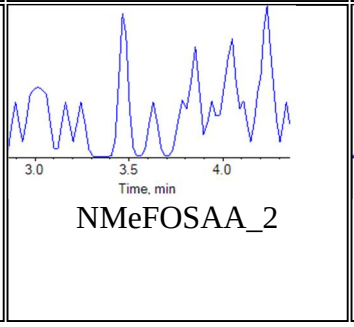

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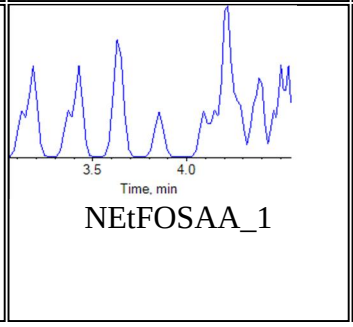

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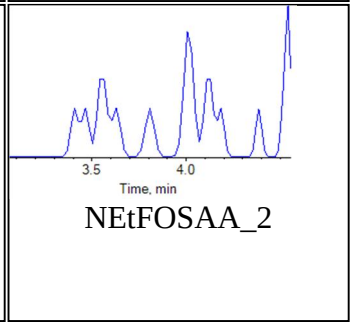

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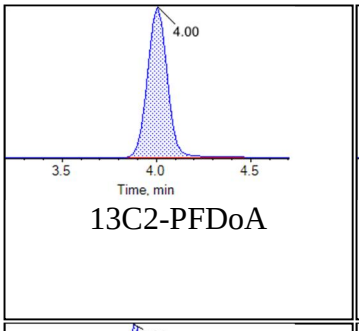

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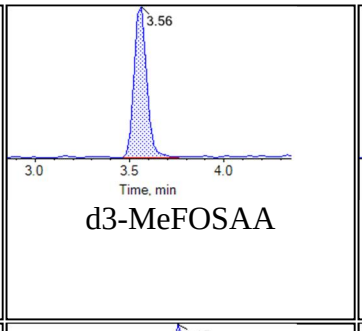
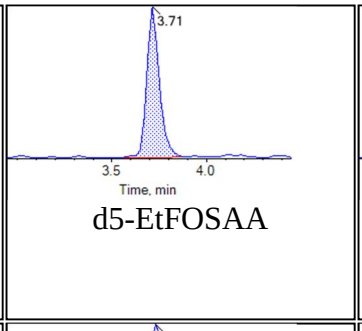


d3-MeFOSAA



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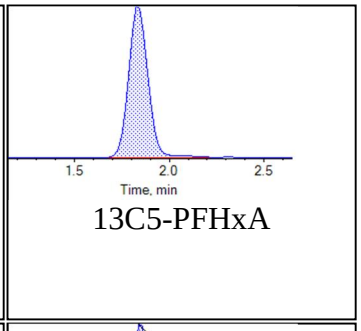

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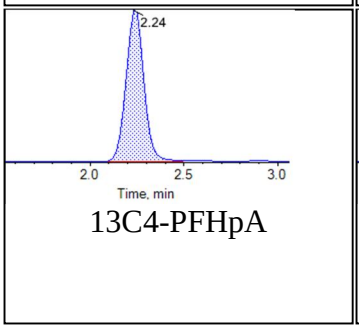

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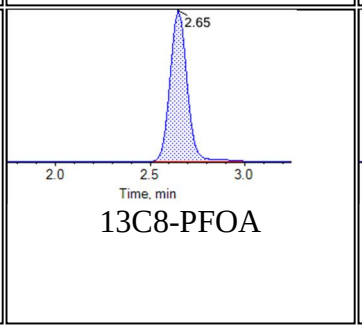
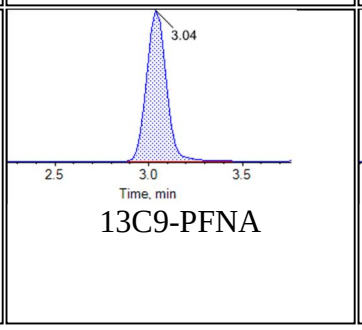
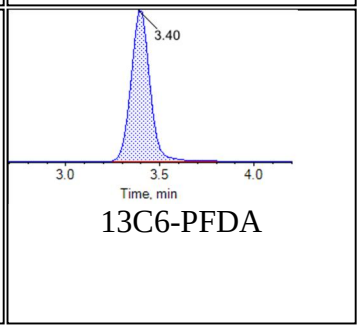


13C8-PFOA



13C9-PFNA



13C6-PFDA

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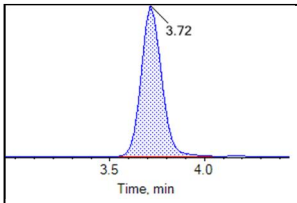
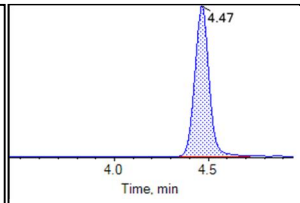



13C7-PFUnA

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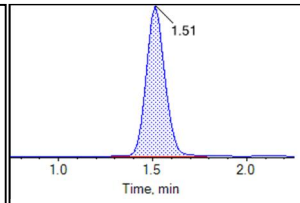


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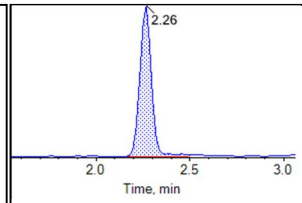


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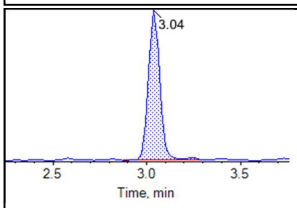


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS(0) | **Injection Vial** | 30 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:42:06 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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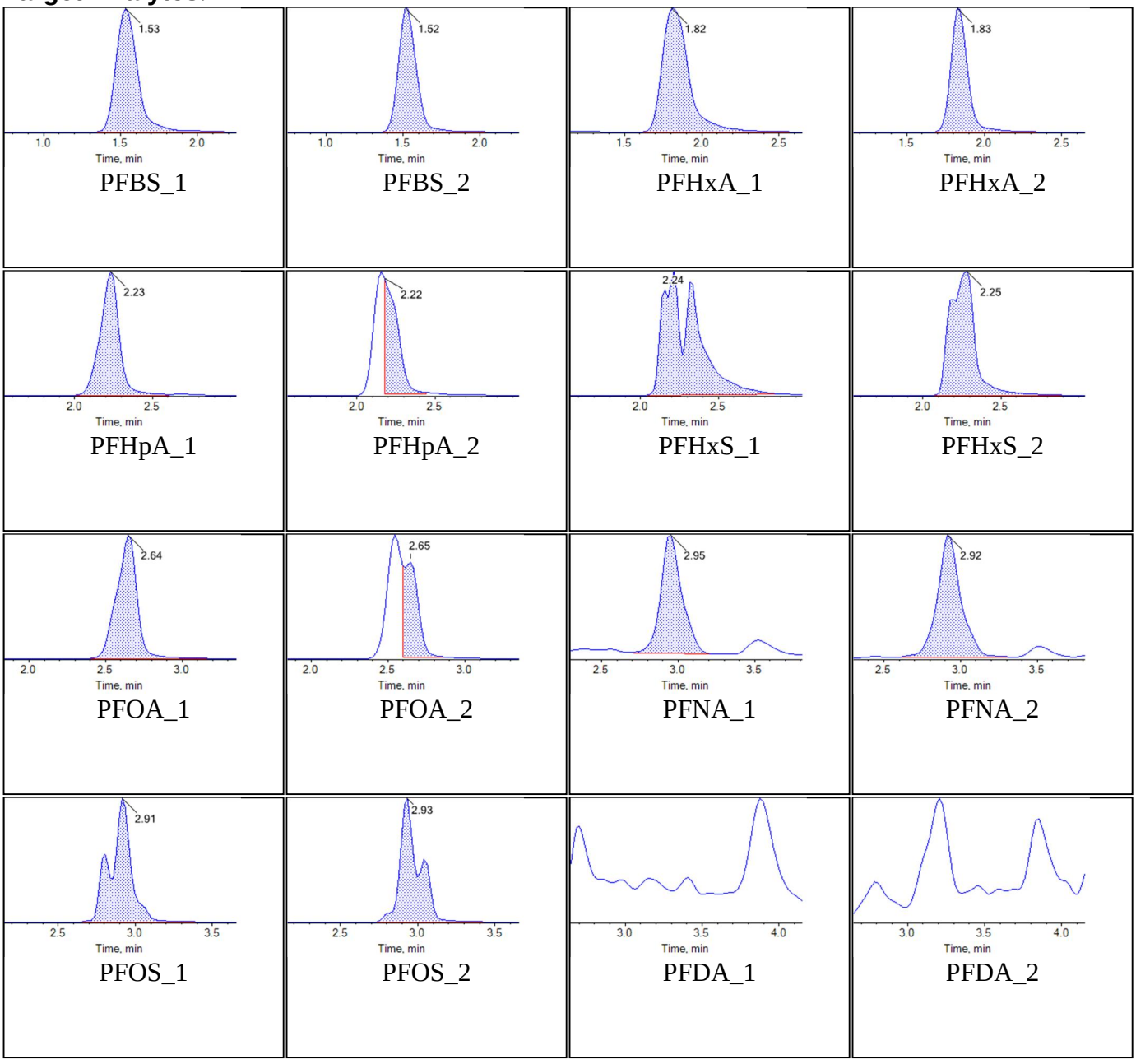

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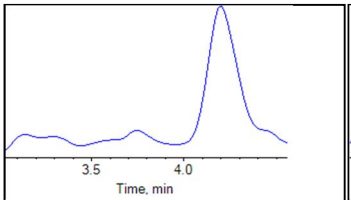

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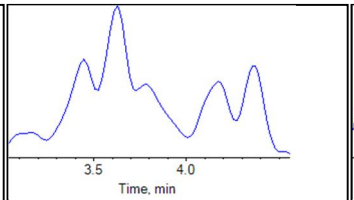

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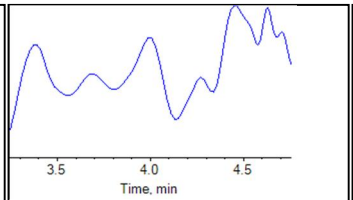

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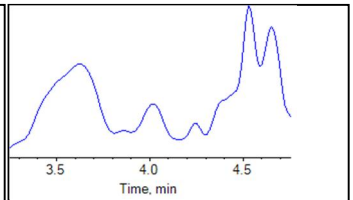

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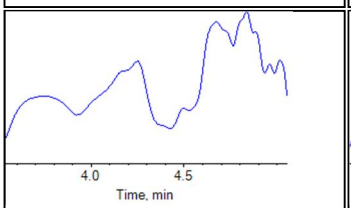

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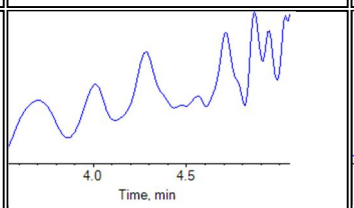

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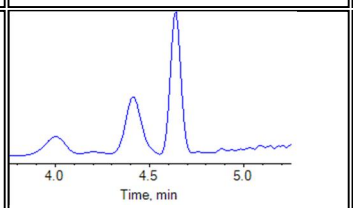

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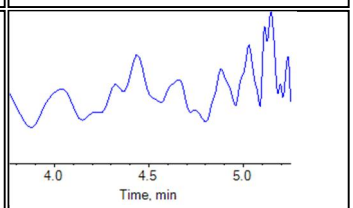

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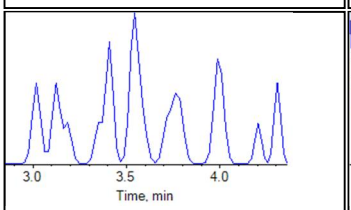

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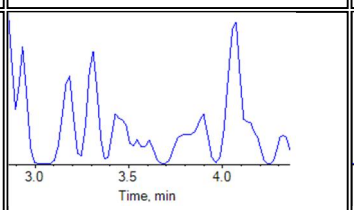

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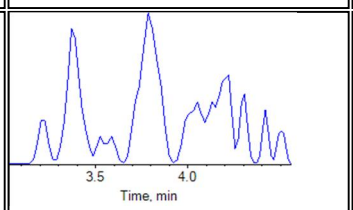

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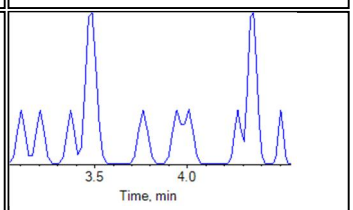

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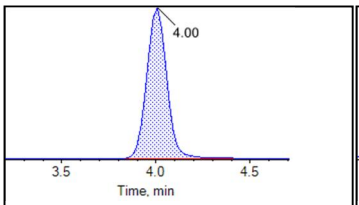

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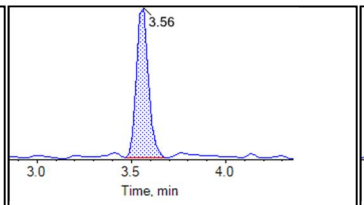

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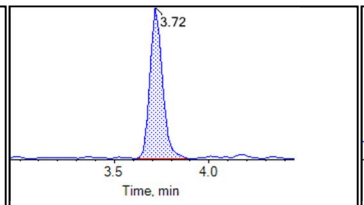
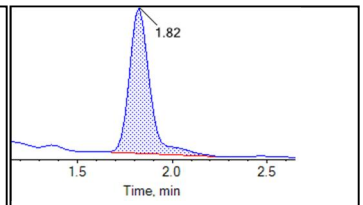


d5-EtFOSAA



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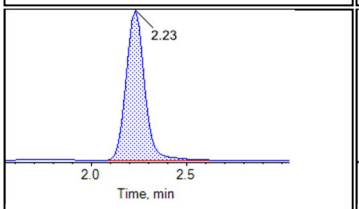

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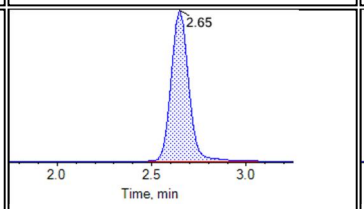

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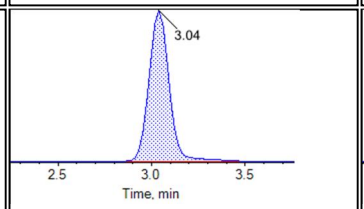

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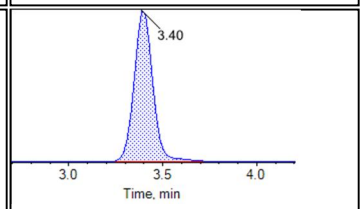

13C6-PFDA

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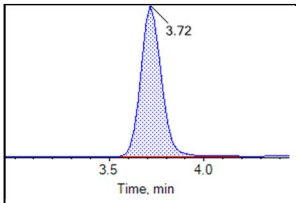
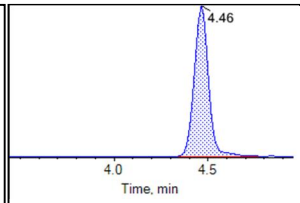



13C7-PFUnA

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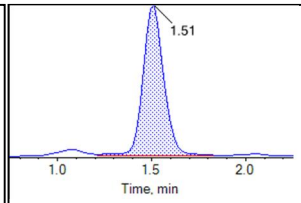
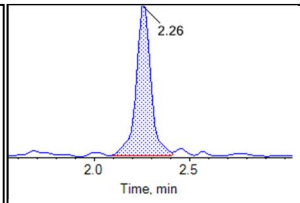



13C3-PFBS

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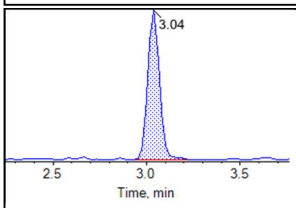


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(5) | **Injection Vial** | 32 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:03:51 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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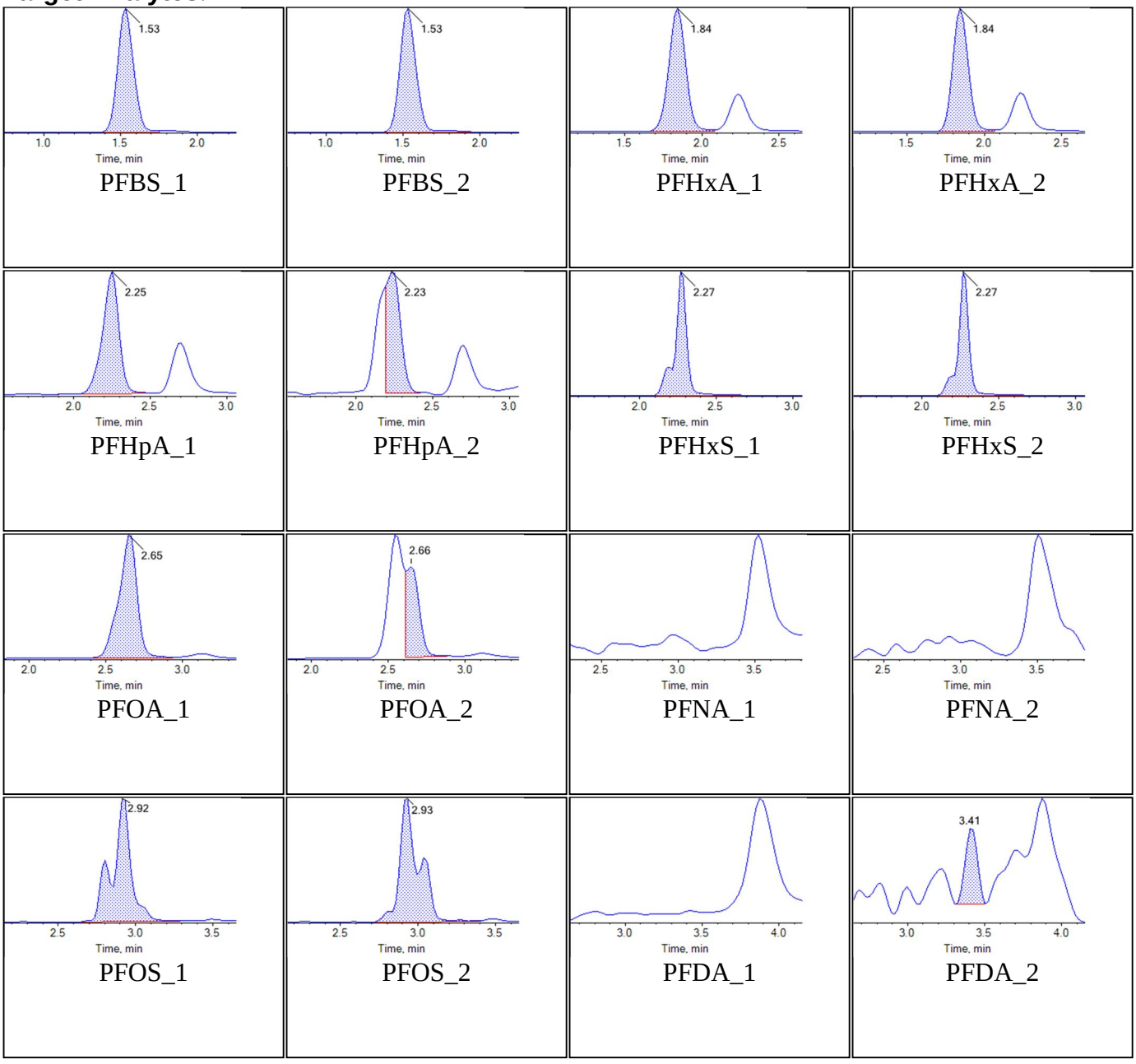

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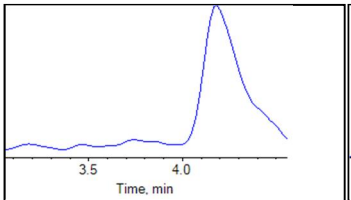

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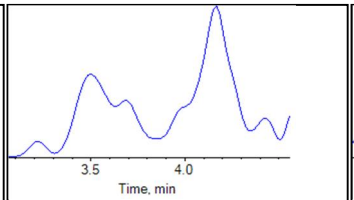

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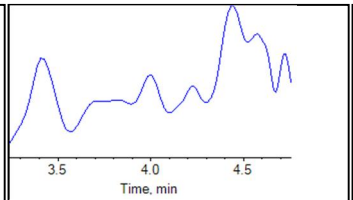

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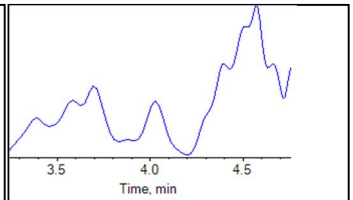

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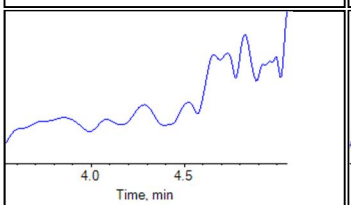

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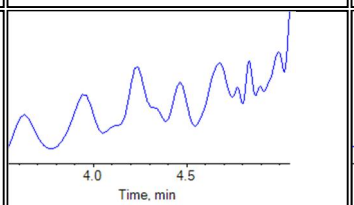

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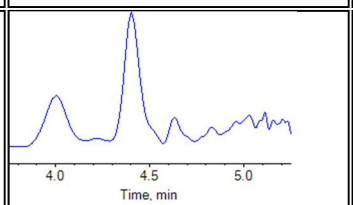

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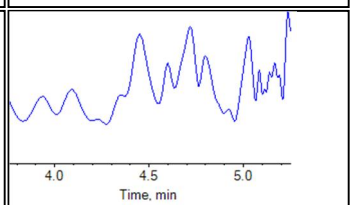

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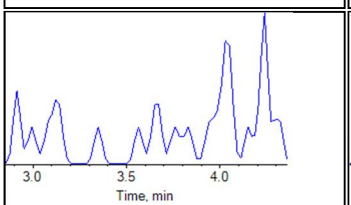

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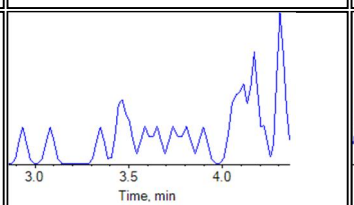

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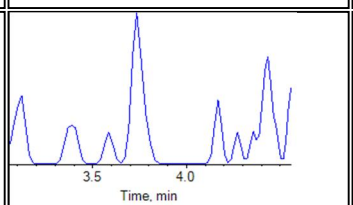

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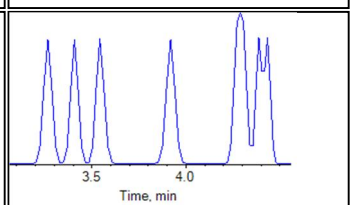

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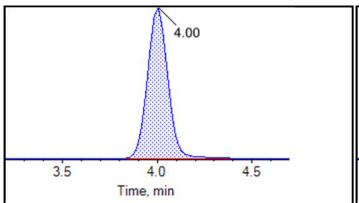

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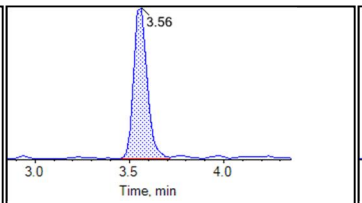

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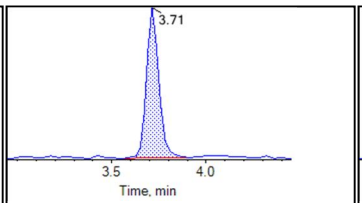

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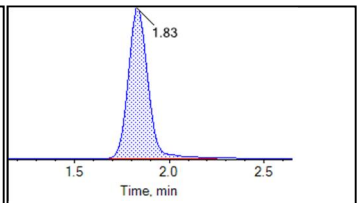

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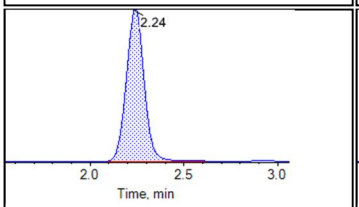

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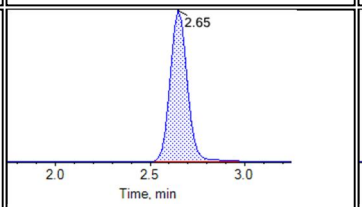

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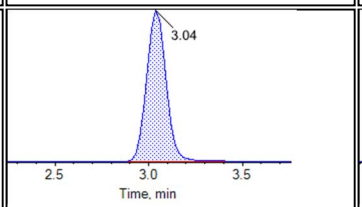

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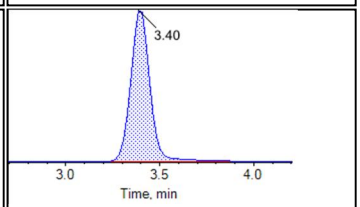

13C6-PFDA

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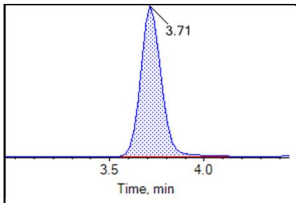


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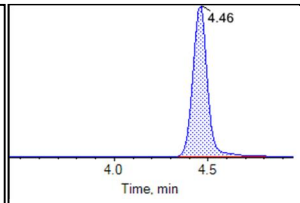


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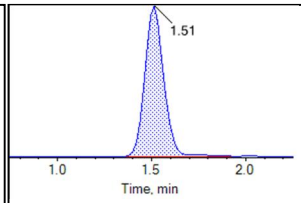


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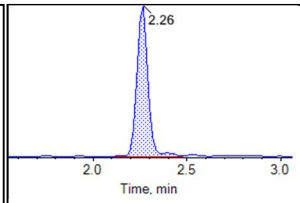


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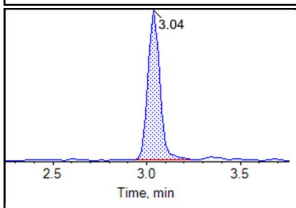


13C8-PFOS

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| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(7) | **Injection Vial** | 33 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:14:43 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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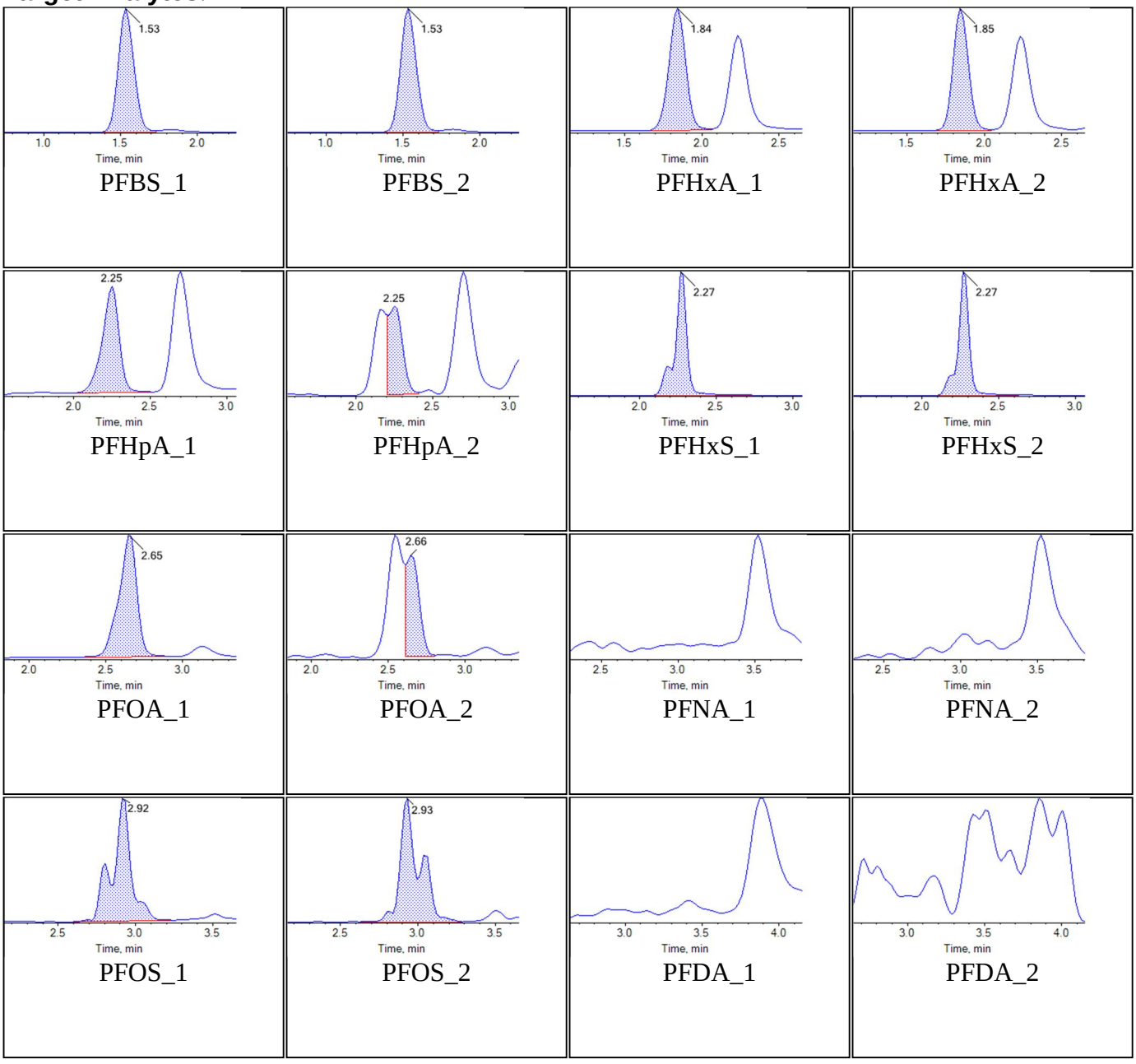

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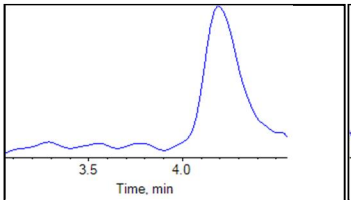

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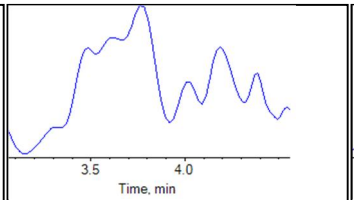

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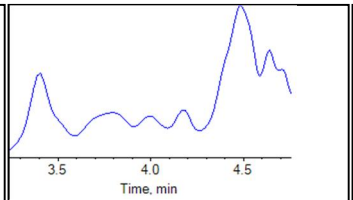

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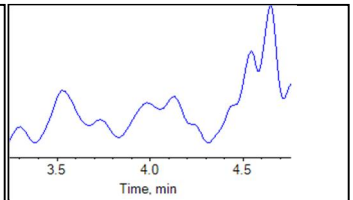

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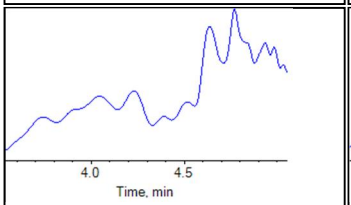

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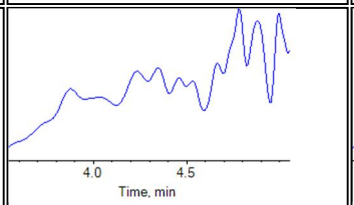

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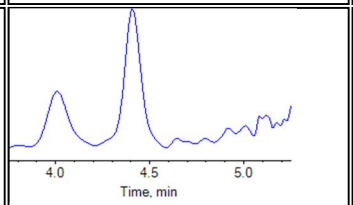

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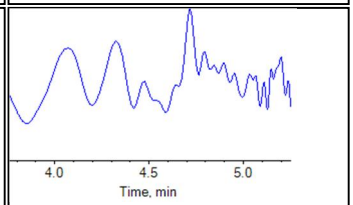

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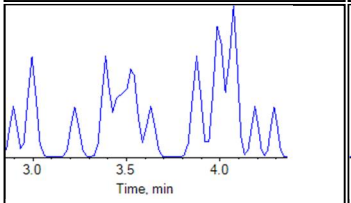

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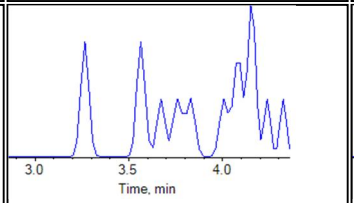

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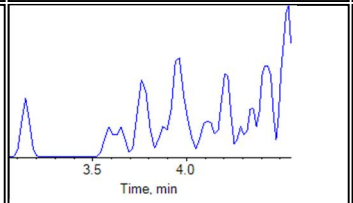

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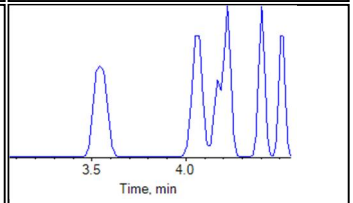

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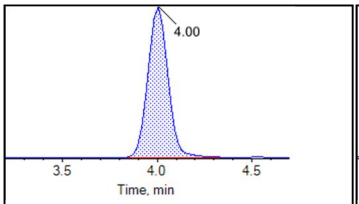

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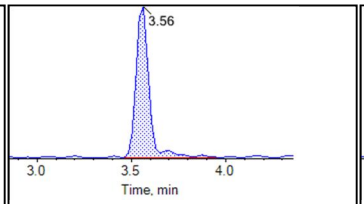

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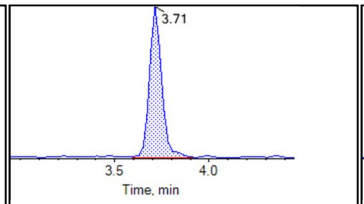
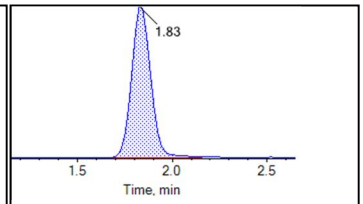


d5-EtFOSAA



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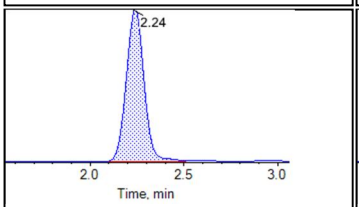

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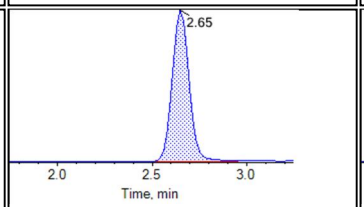

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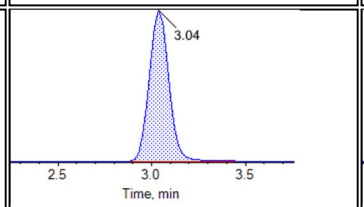

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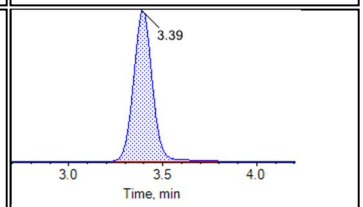

13C6-PFDA

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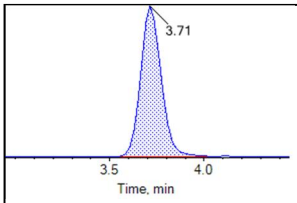


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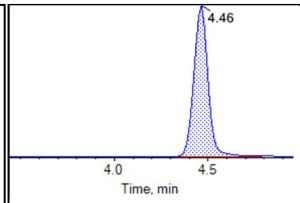


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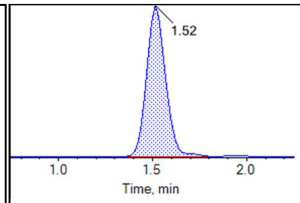


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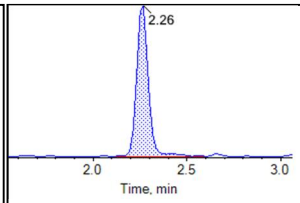


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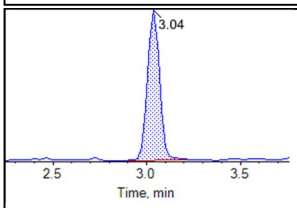


13C8-PFOS

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Chromatogram Report

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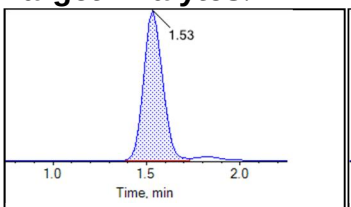
| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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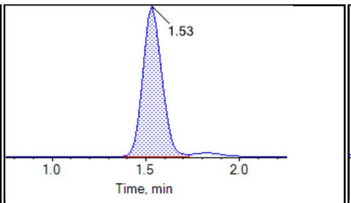

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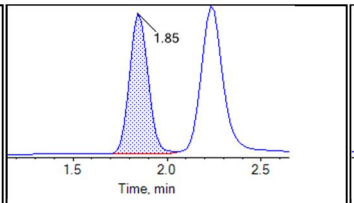

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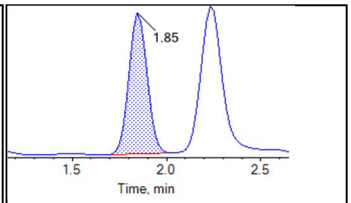

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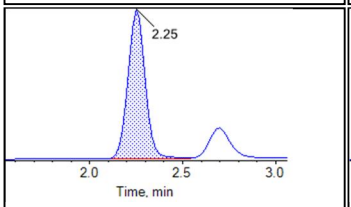

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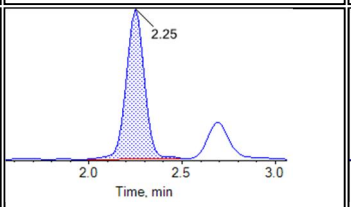

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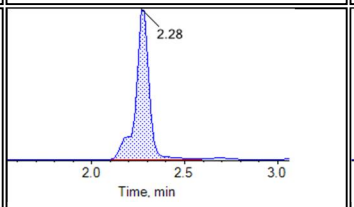

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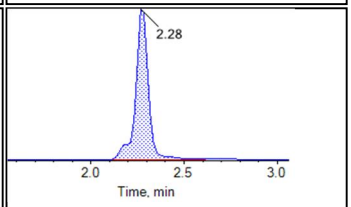

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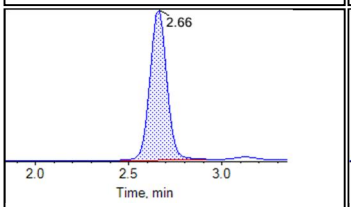

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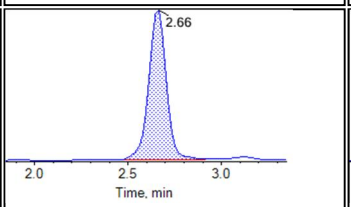

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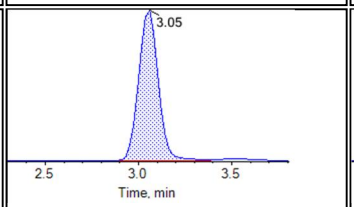

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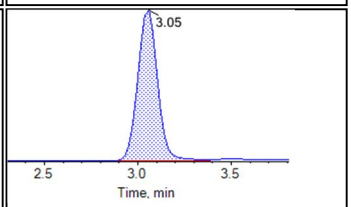

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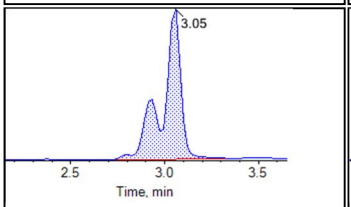

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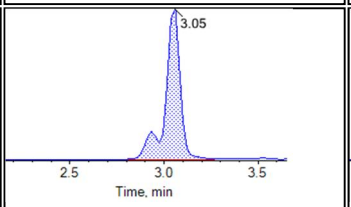

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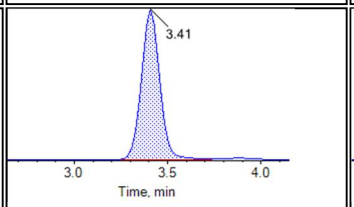

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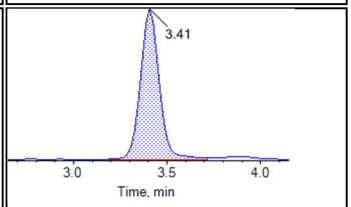

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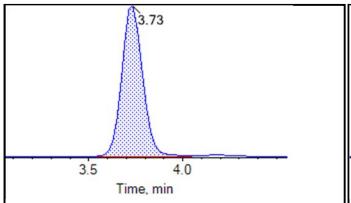

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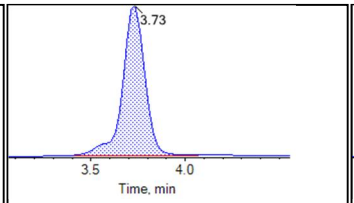

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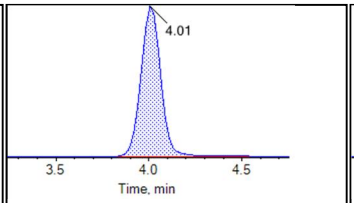

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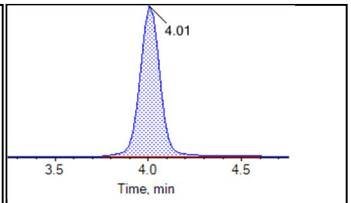

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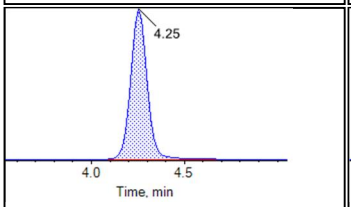

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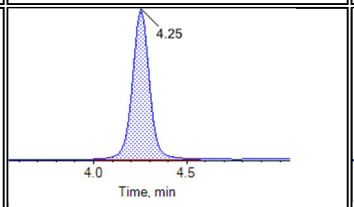

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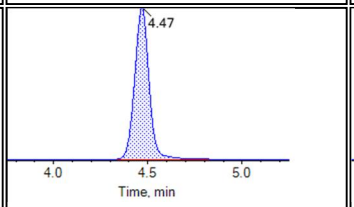

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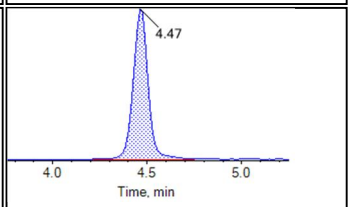

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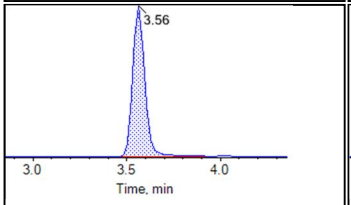

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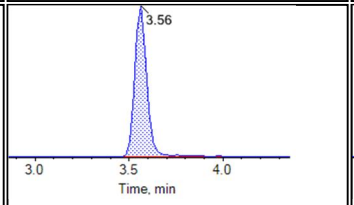

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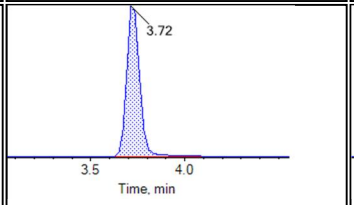

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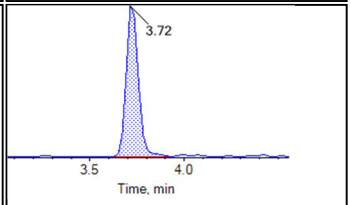

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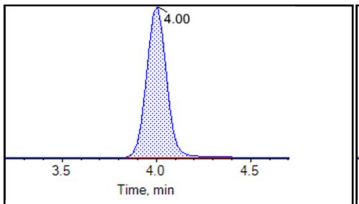

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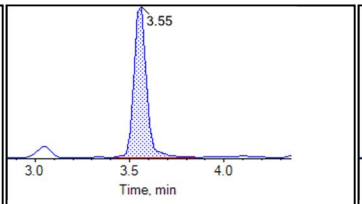

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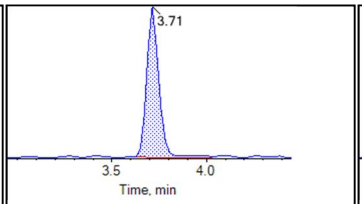

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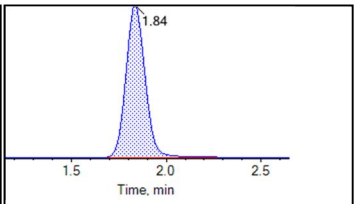

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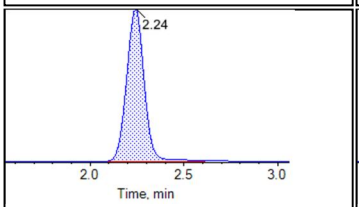

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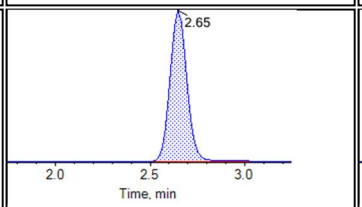

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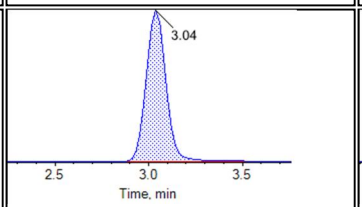

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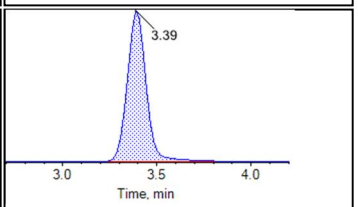

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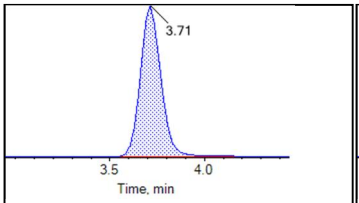


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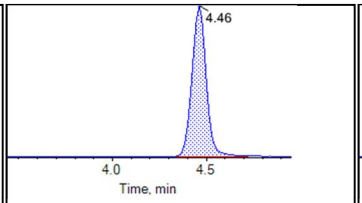


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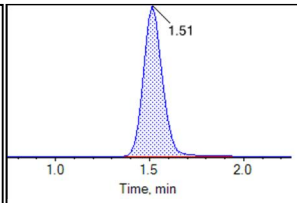


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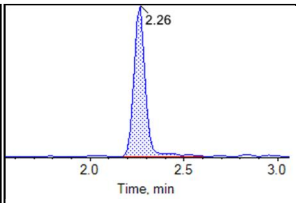


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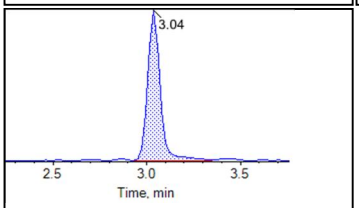


13C8-PFOS

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Chromatogram Report

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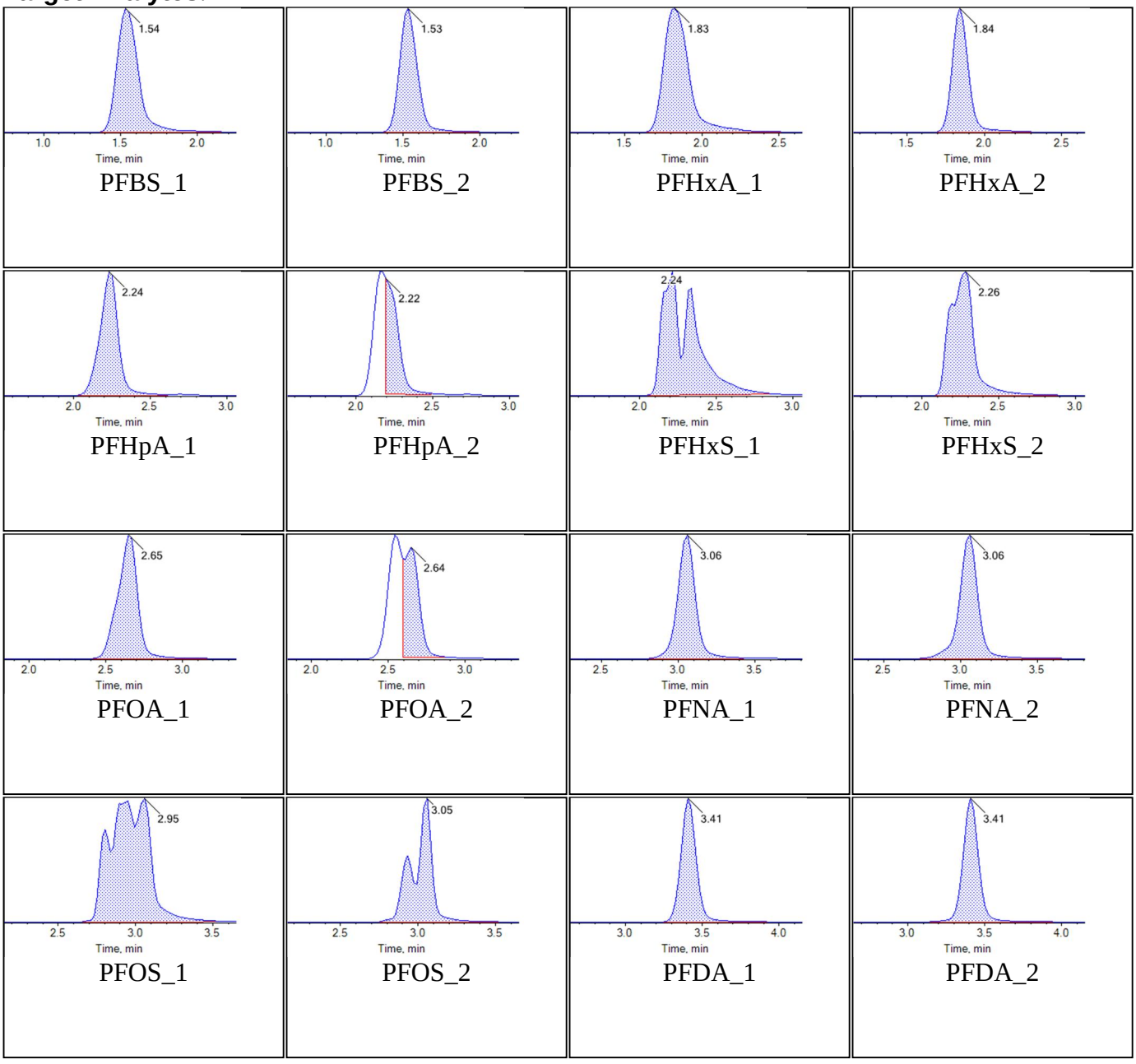
| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:47:21 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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Chromatogram Report

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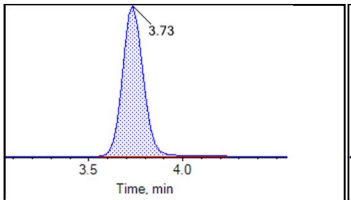

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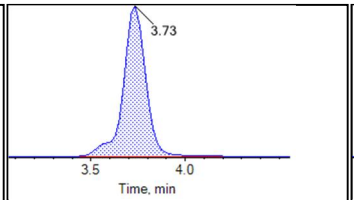

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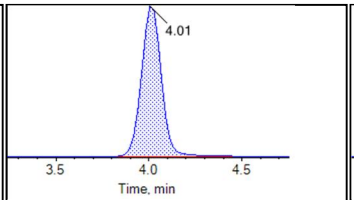

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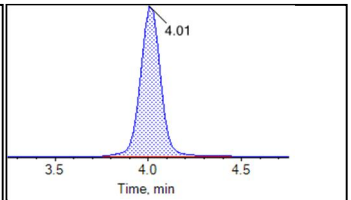

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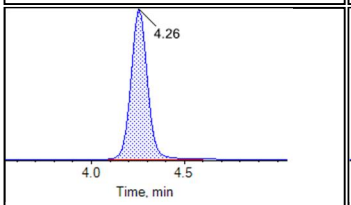

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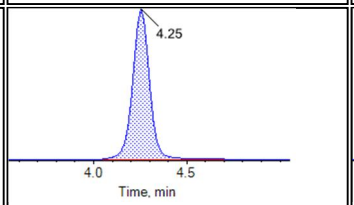

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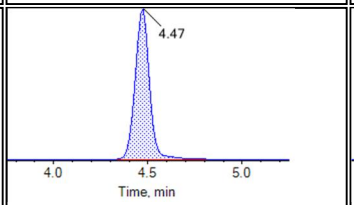

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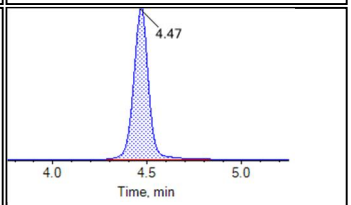

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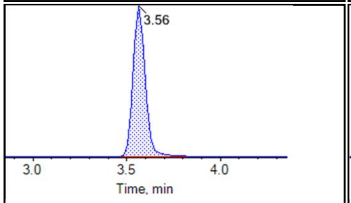

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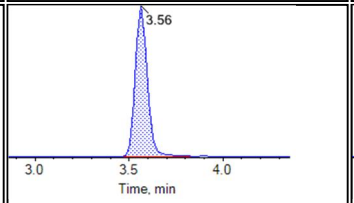

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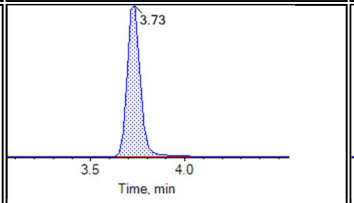

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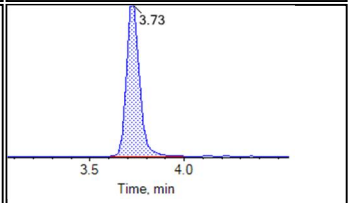

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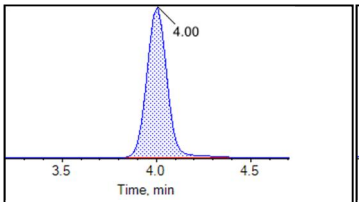

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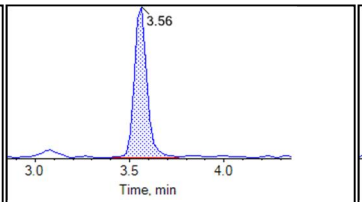
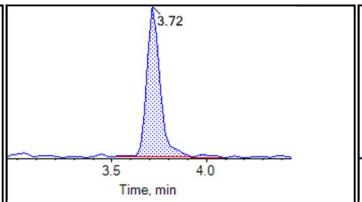


d3-MeFOSAA



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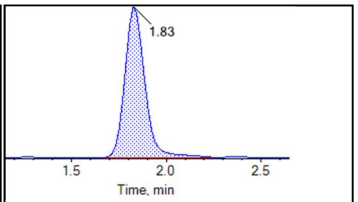

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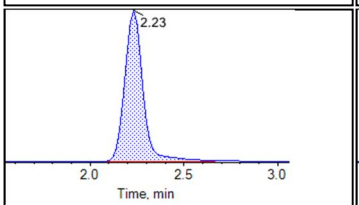

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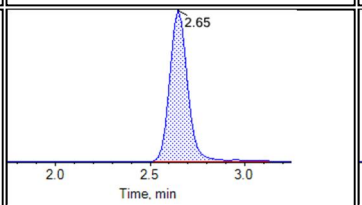

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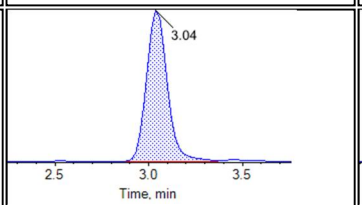

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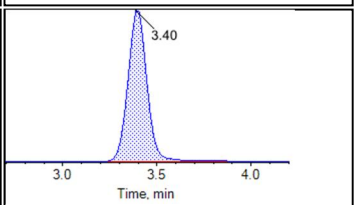

13C6-PFDA

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Chromatogram Report

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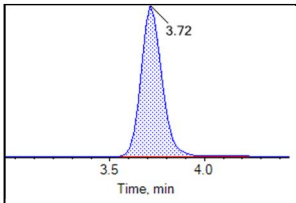
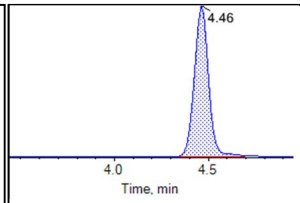



13C7-PFUnA

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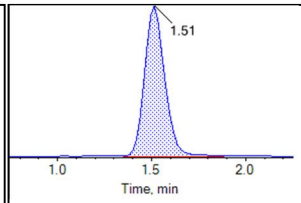
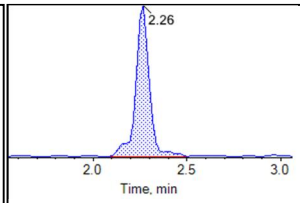
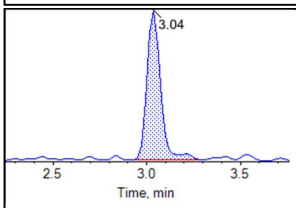



13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

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Printed: 22/10/2018 1:50:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:58:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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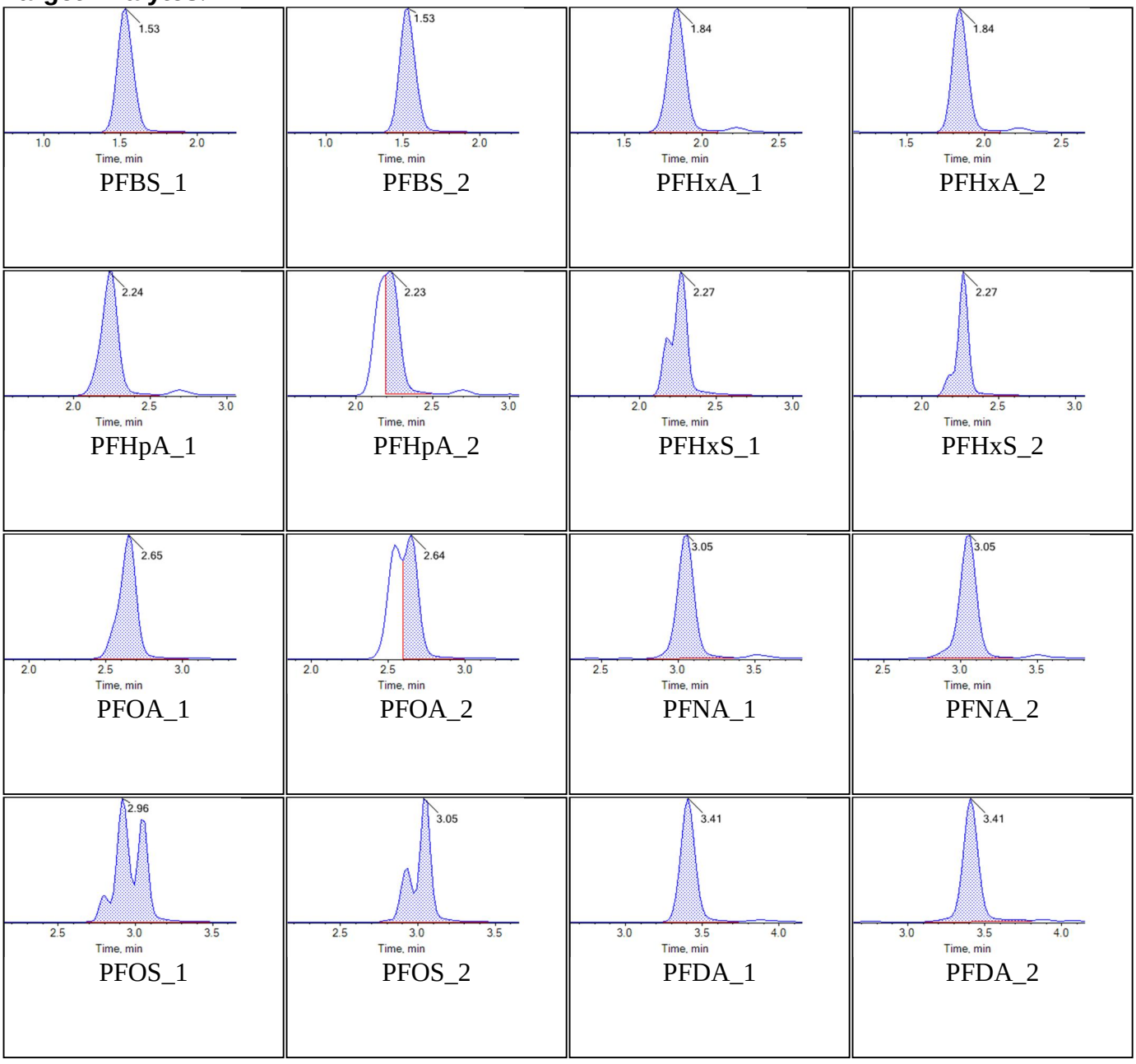

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Chromatogram Report

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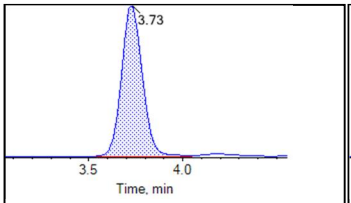

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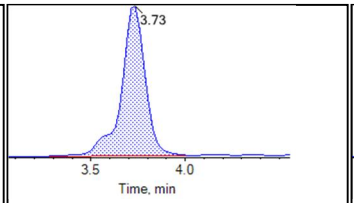

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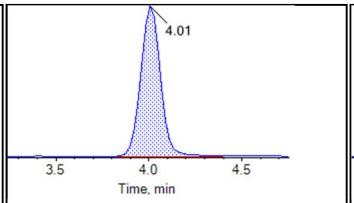

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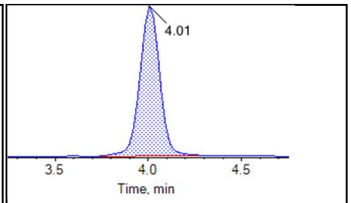
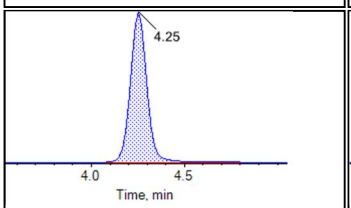


PFDoA_2



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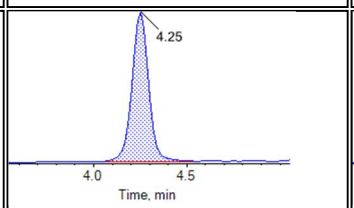

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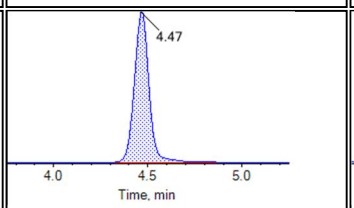

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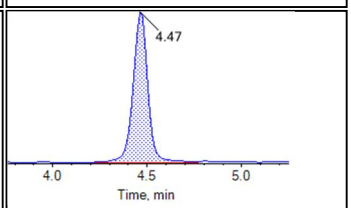

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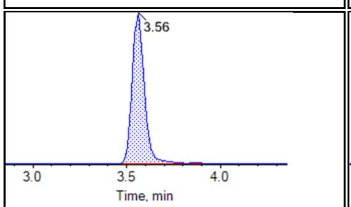

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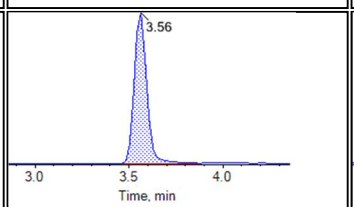

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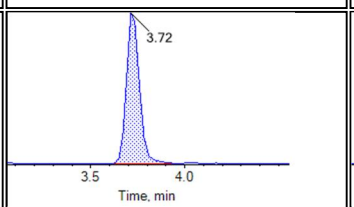

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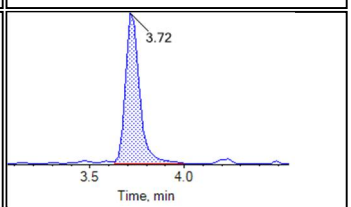

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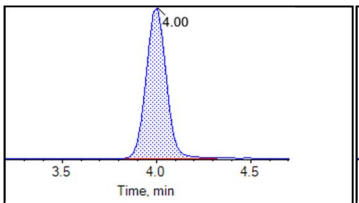

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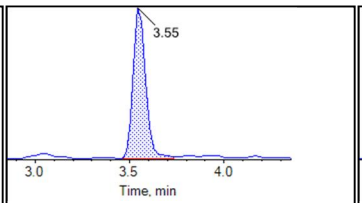
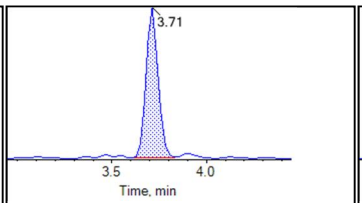
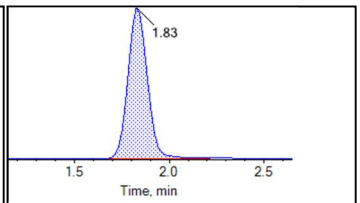


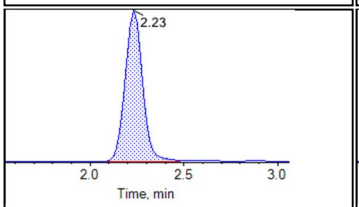
d3-MeFOSAA



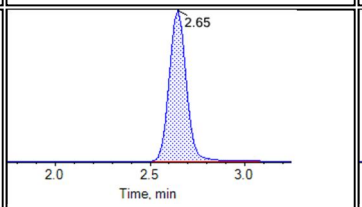
d5-EtFOSAA



13C5-PFHxA



13C4-PFHpA



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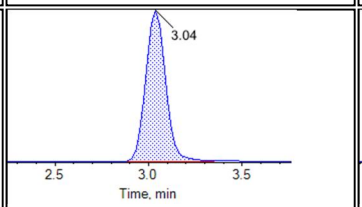
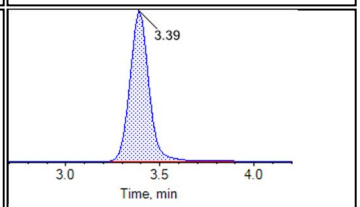


13C9-PFNA



13C6-PFDA

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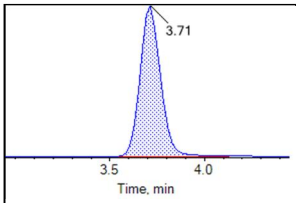
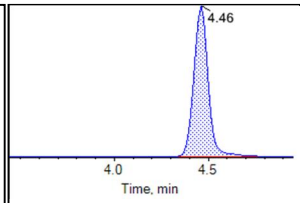
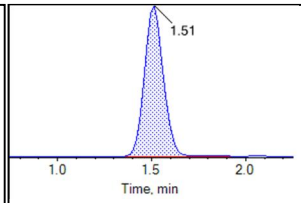


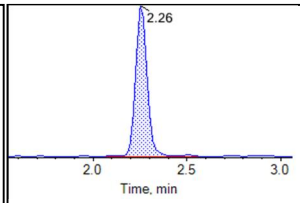

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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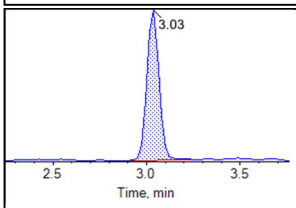


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(5) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:09:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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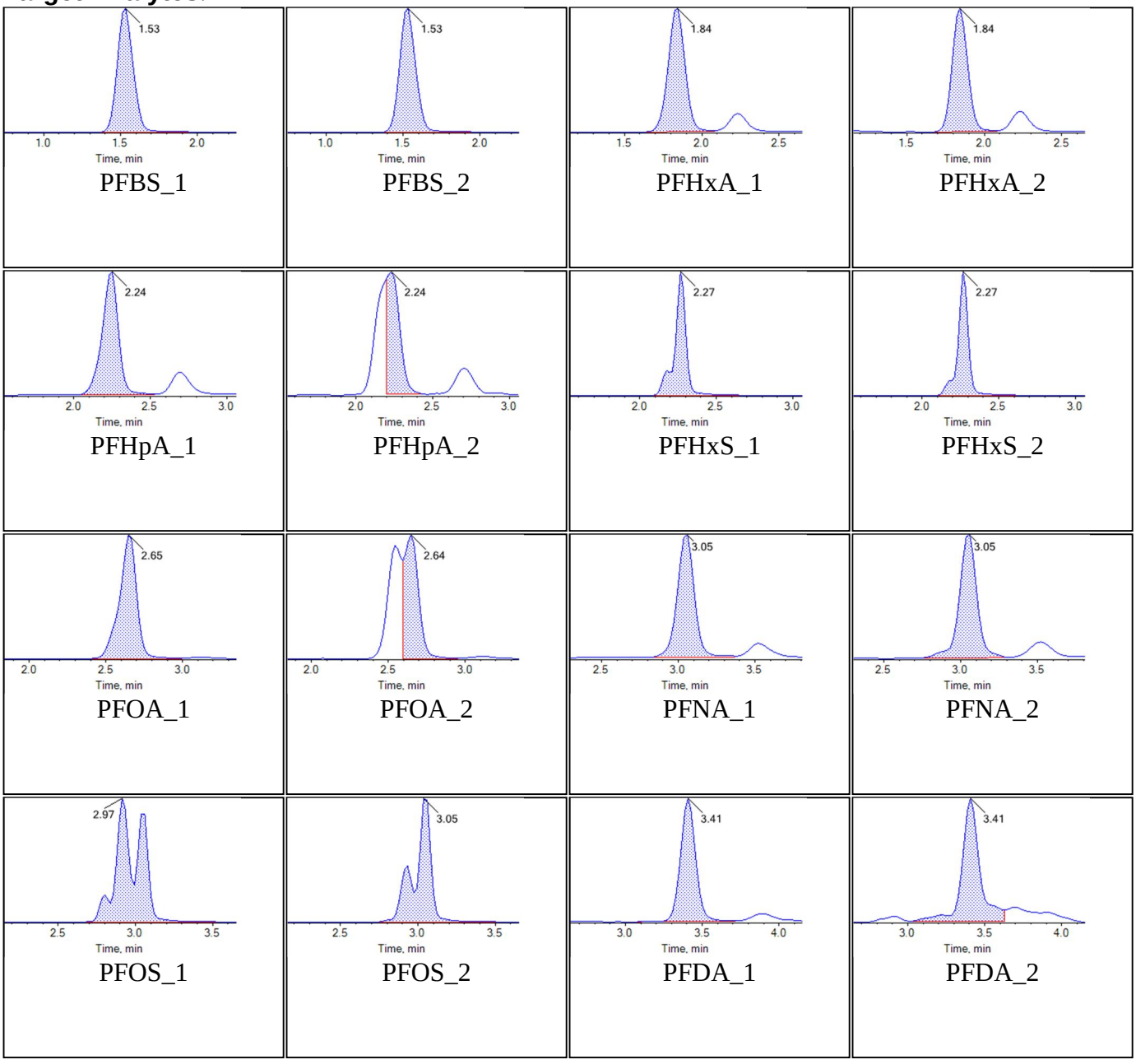

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Chromatogram Report

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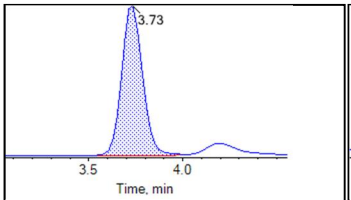

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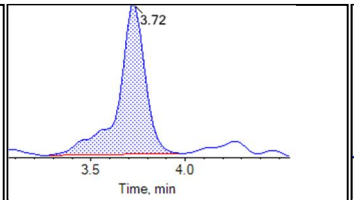
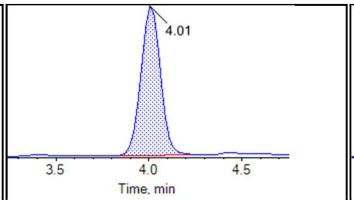
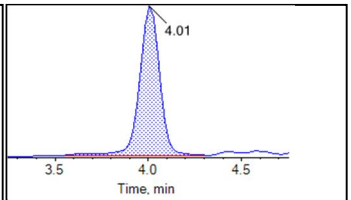


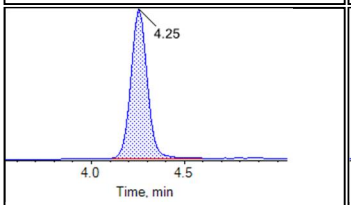
PFUnA_2



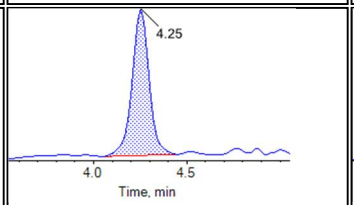
PFDoA_1



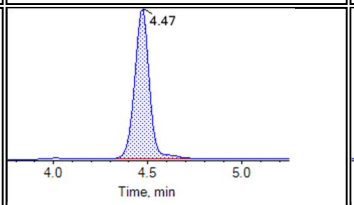
PFDoA_2



PFTrDA_1



PFTrDA_2



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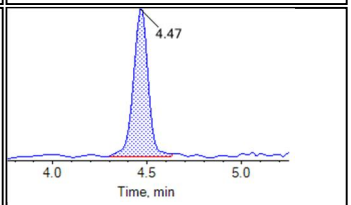
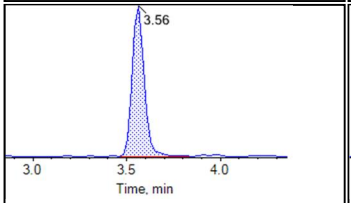
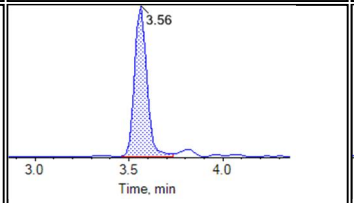


PFTeDA_2



NMeFOSAA_1



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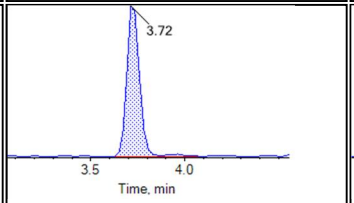

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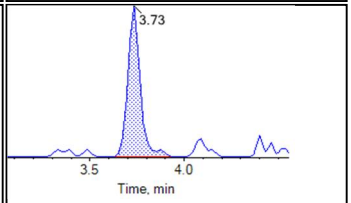

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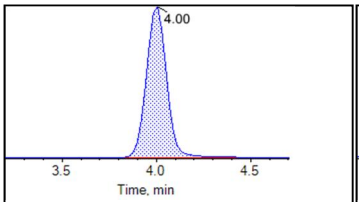
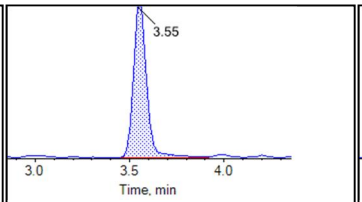


13C2-PFDoA



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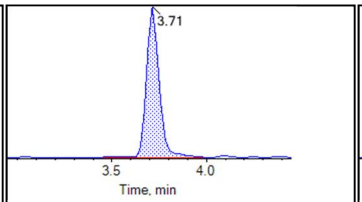

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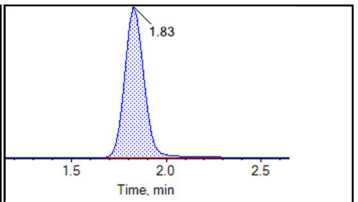

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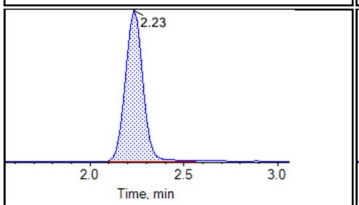

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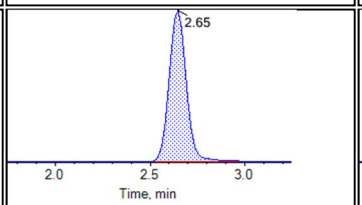
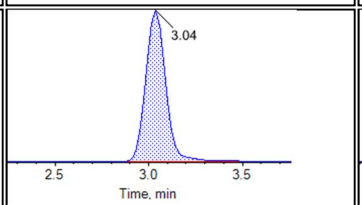
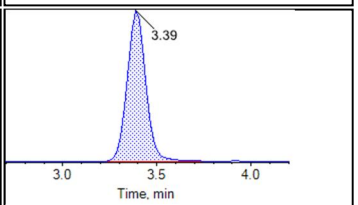


13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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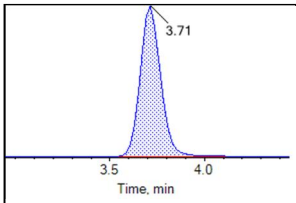
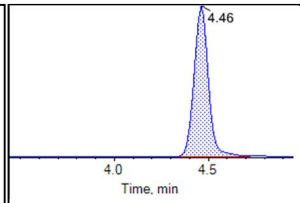



13C7-PFUnA

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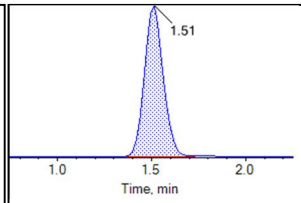
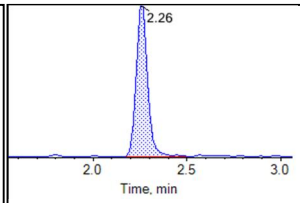



13C3-PFBS

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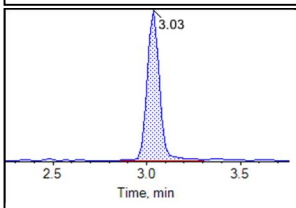


13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(7) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:20:00 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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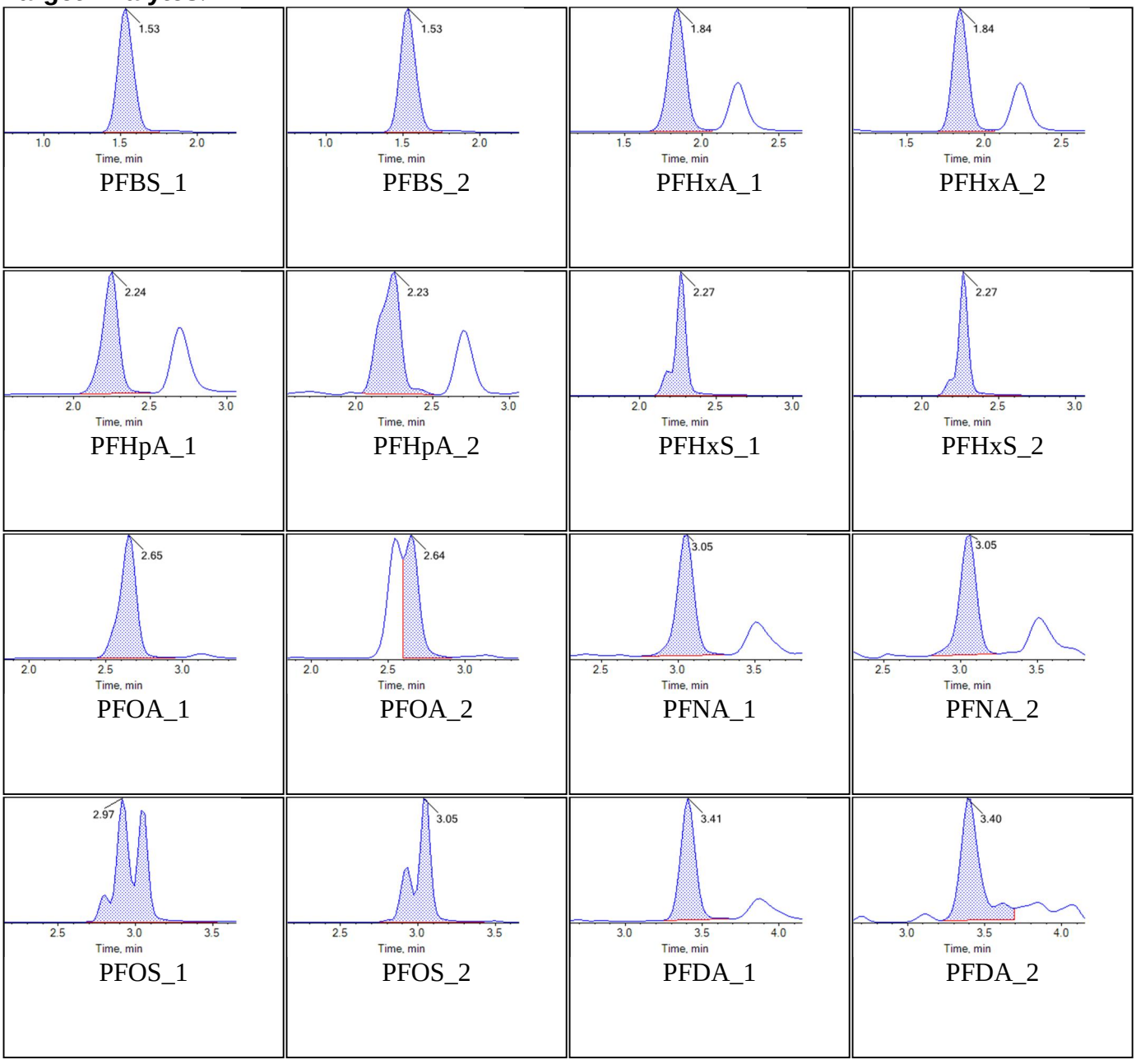

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Chromatogram Report

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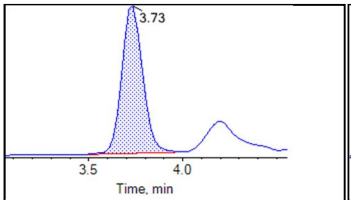

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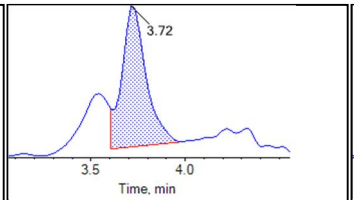

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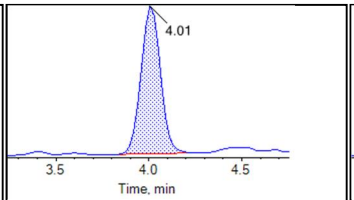

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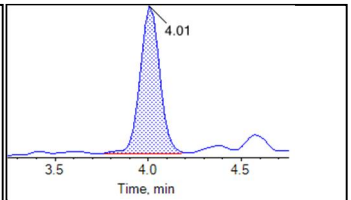
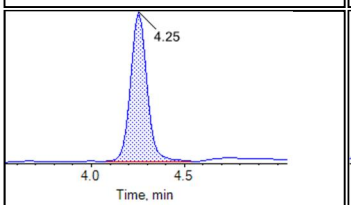
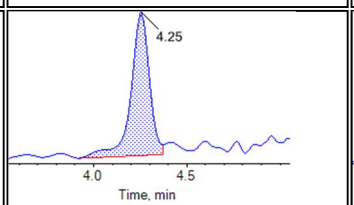


PFDoA_2



PFTrDA_1



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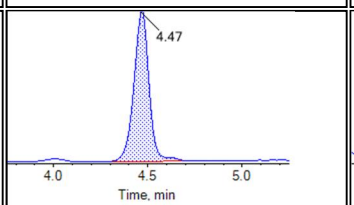

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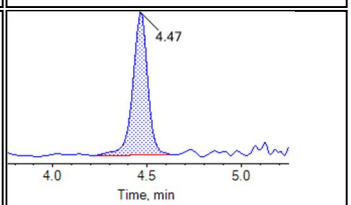

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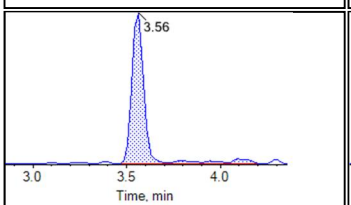

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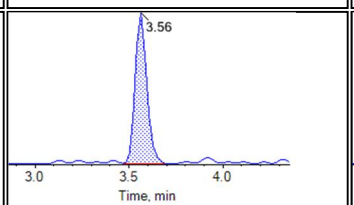

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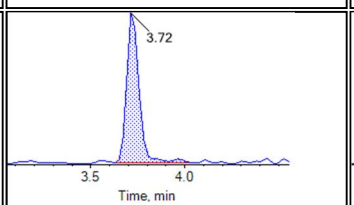
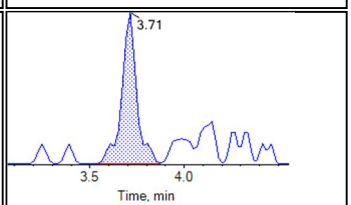


NEtFOSAA_1



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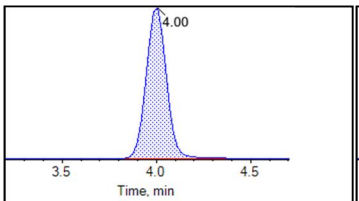

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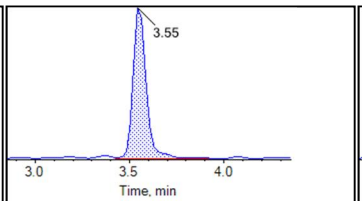
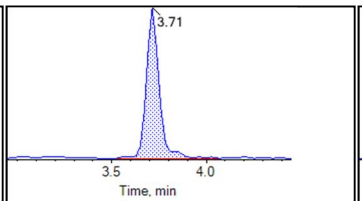
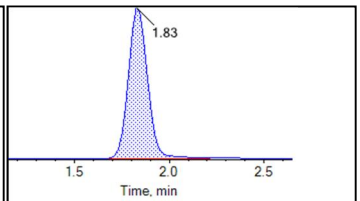


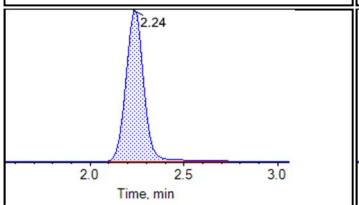
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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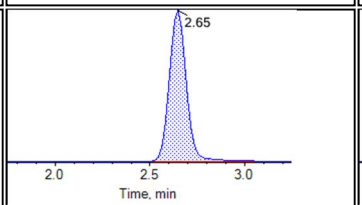

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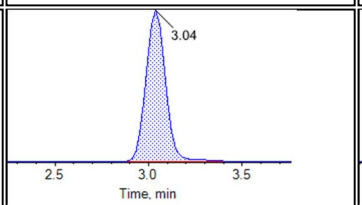
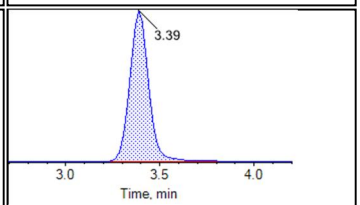


13C9-PFNA



13C6-PFDA

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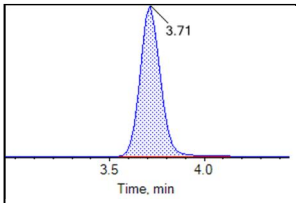
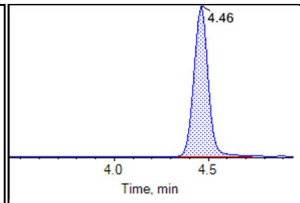
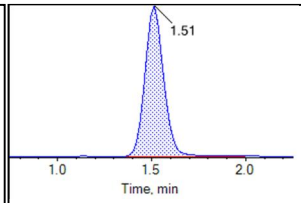


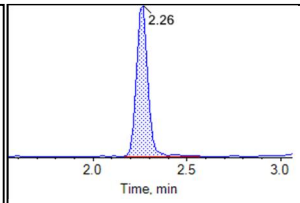

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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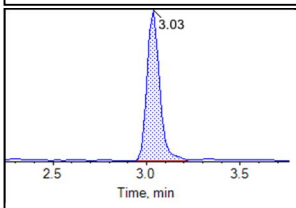


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 40 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:30:53 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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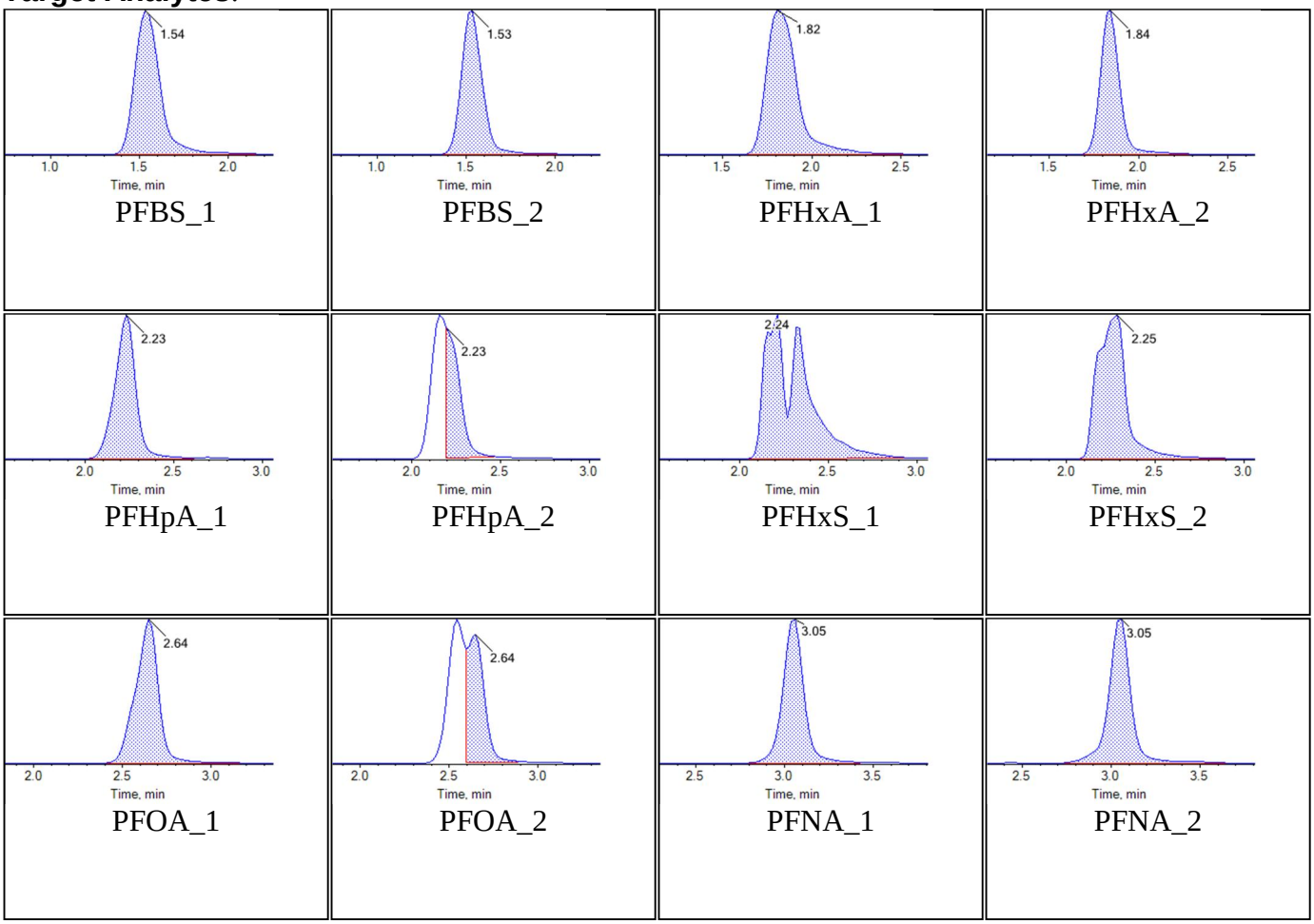

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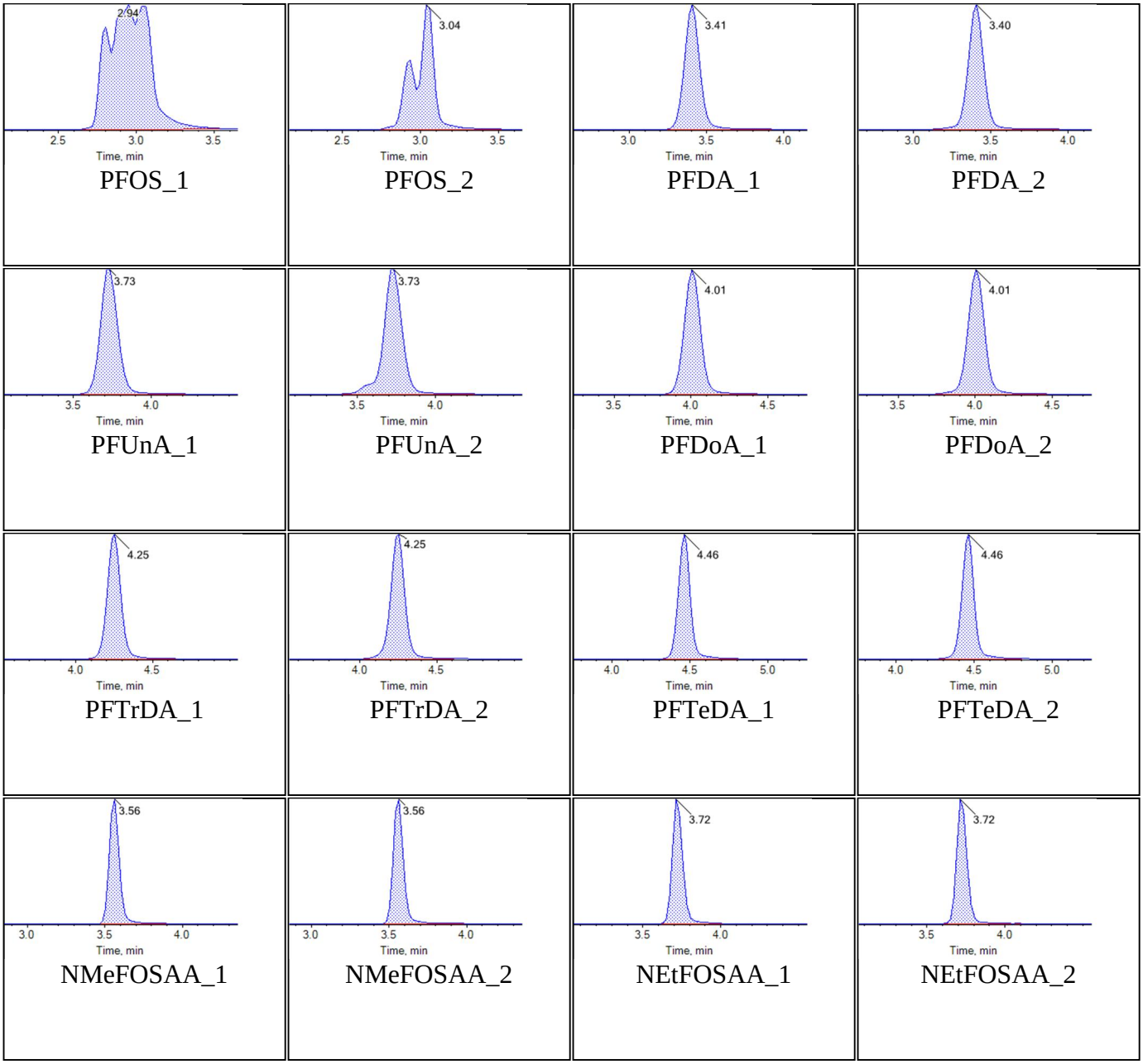


**Internal Standards:**

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Chromatogram Report

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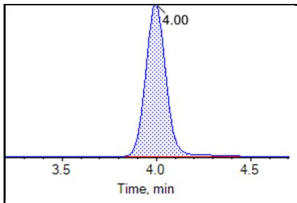

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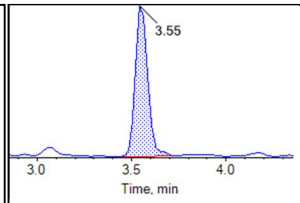
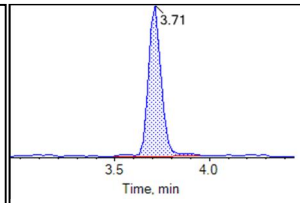
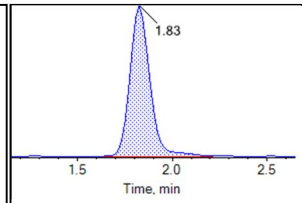


d3-MeFOSAA



d5-EtFOSAA



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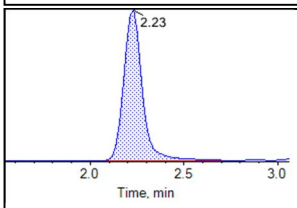
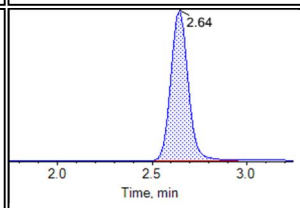
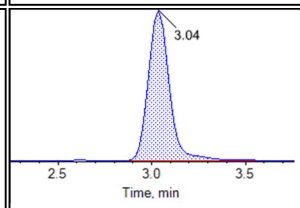


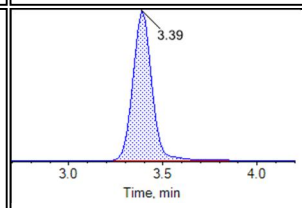
13C4-PFHpA



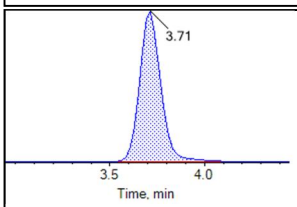
13C8-PFOA



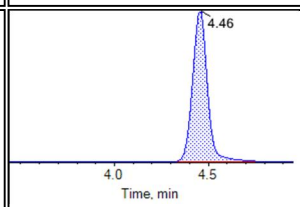
13C9-PFNA



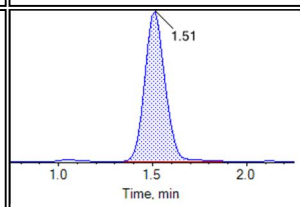
13C6-PFDA



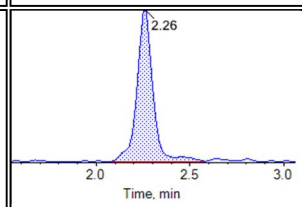
13C7-PFUnA



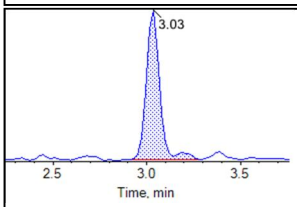
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:50:40 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(5) | **Injection Vial** | 42 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:52:40 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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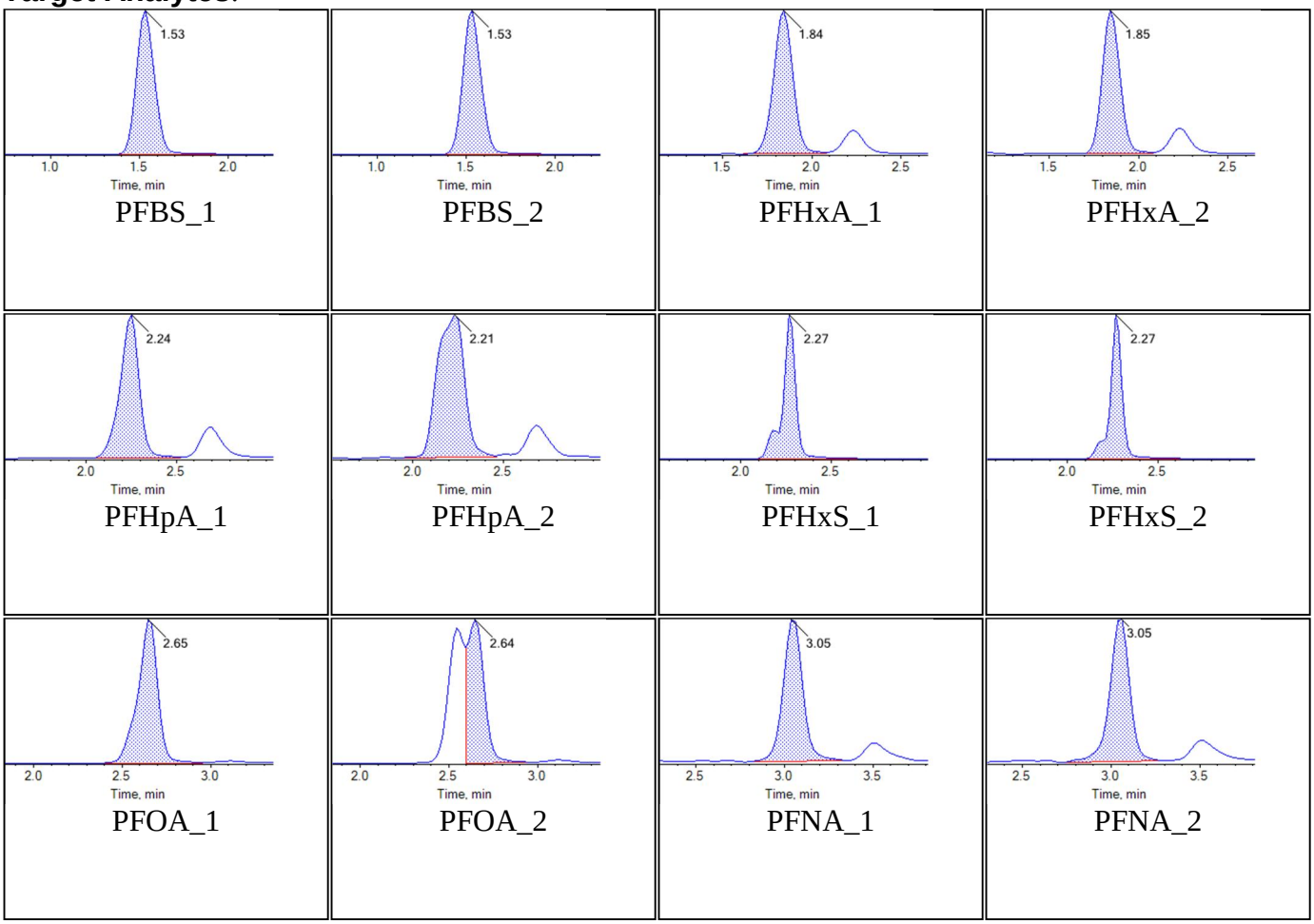

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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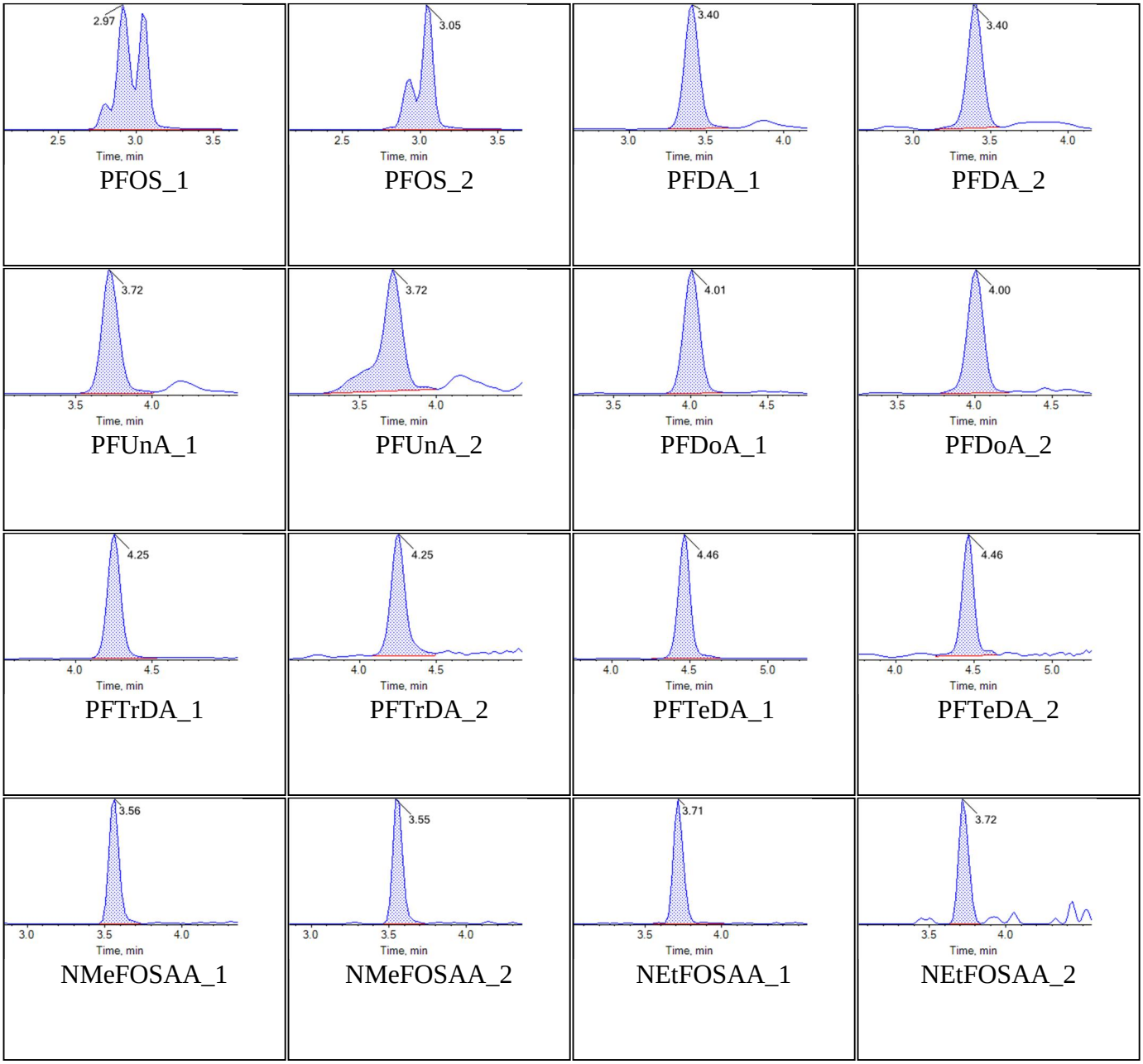
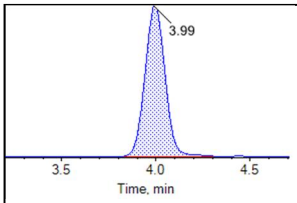



**Internal Standards:**

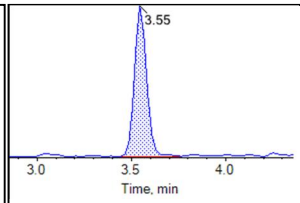
BATTELLE

Chromatogram Report

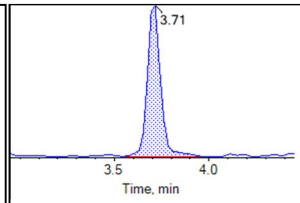
Created with Analyst Reporter
Printed: 22/10/2018 1:50:40 PM



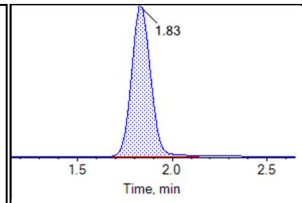

13C2-PFDoA



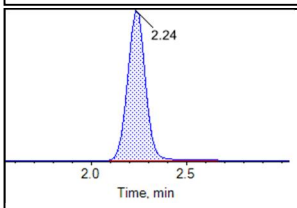

d3-MeFOSAA



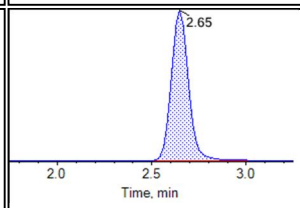

d5-EtFOSAA



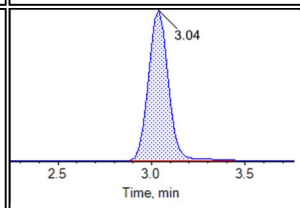

13C5-PFHxA



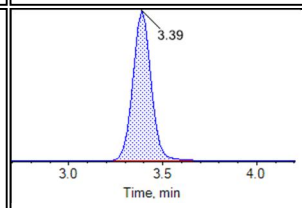

13C4-PFHpA



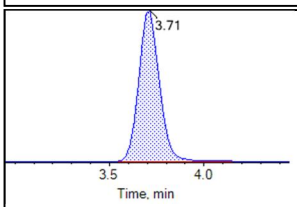

13C8-PFOA



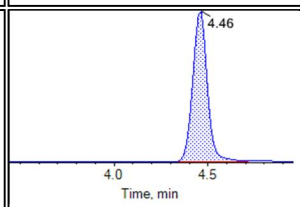

13C9-PFNA



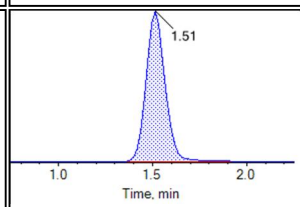

13C6-PFDA



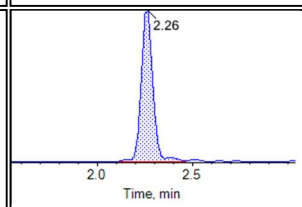

13C7-PFUnA



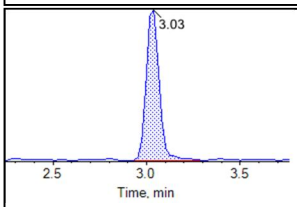

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:50:44 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(7) | **Injection Vial** | 43 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:03:32 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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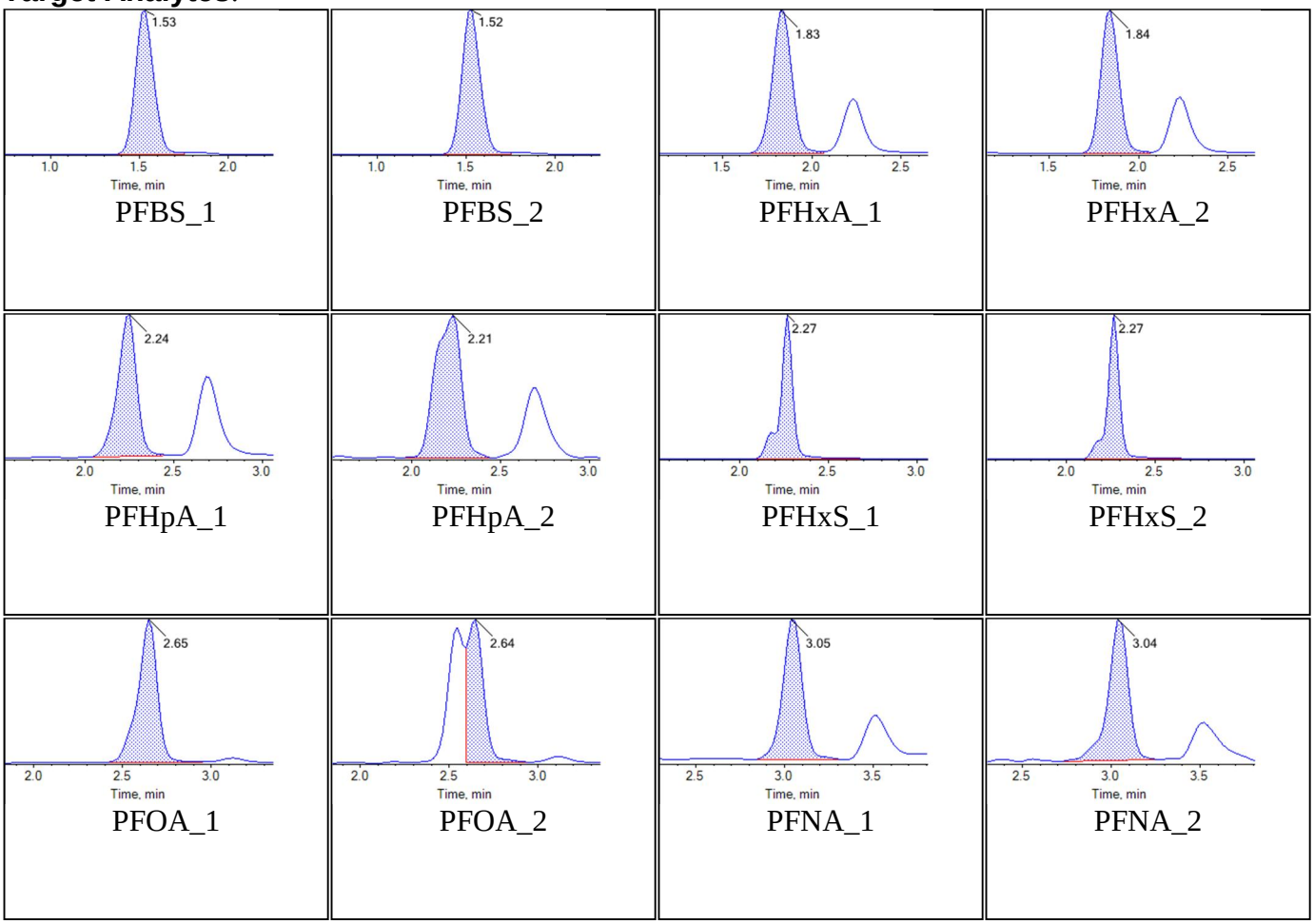

BATTELLE

Chromatogram Report

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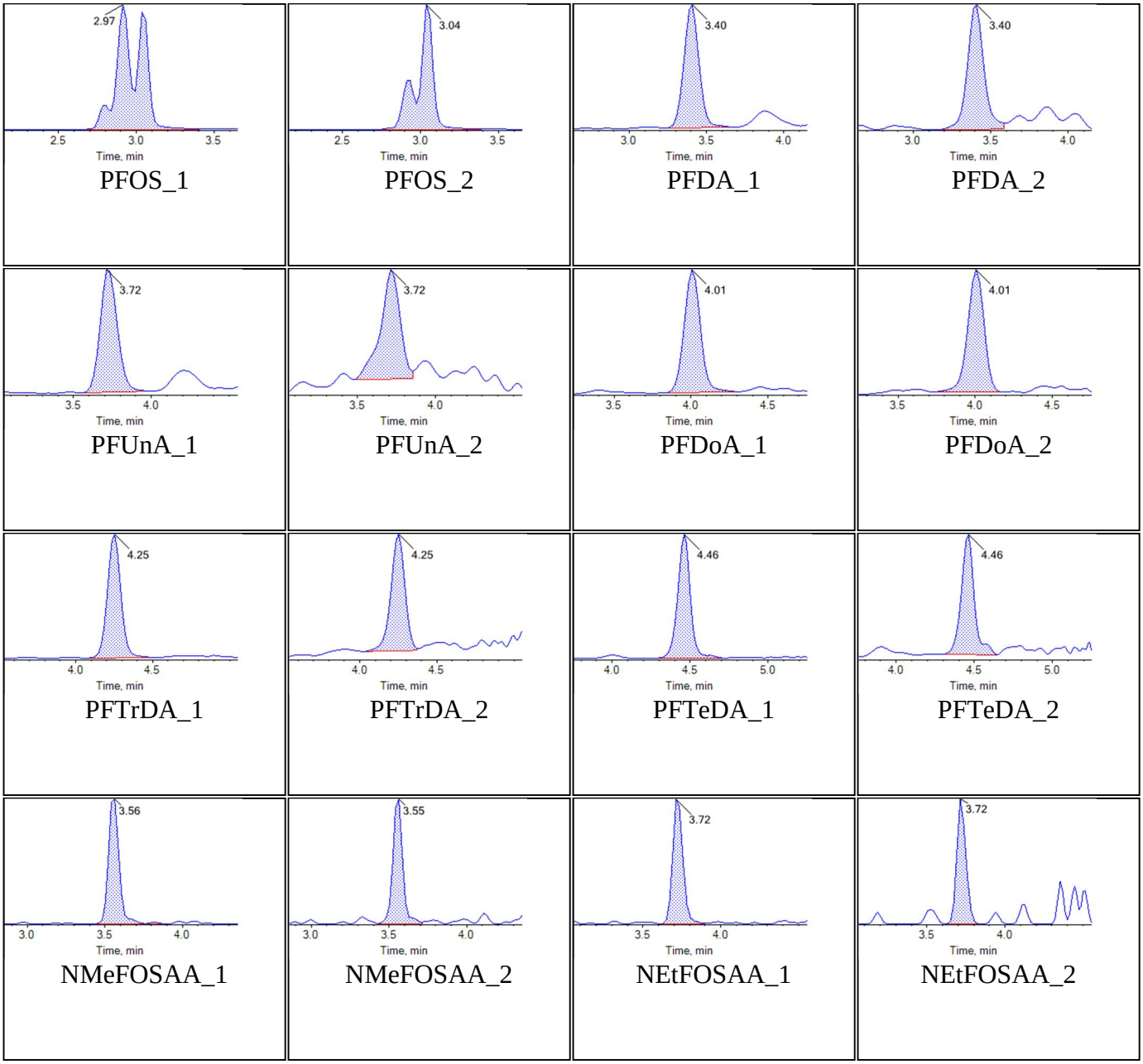


**Internal Standards:**

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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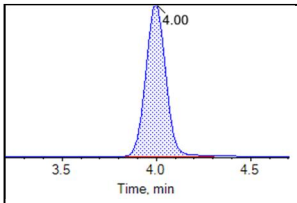
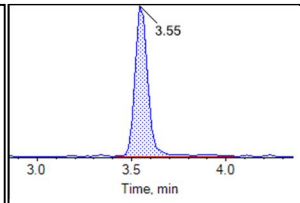
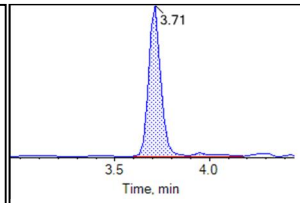


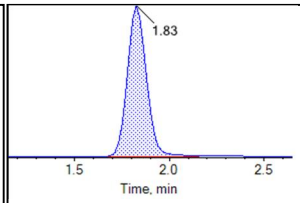

13C2-PFDoA



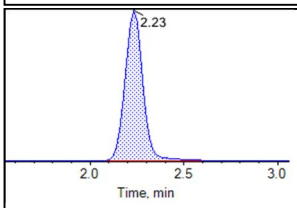

d3-MeFOSAA



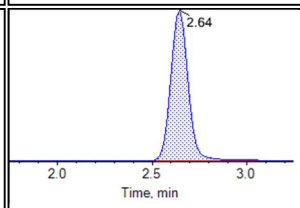

d5-EtFOSAA



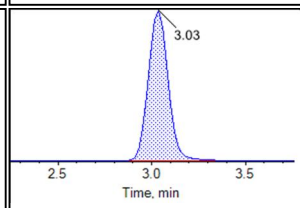

13C5-PFHxA



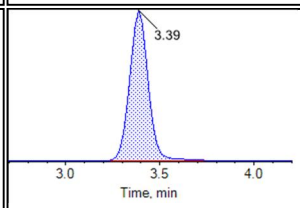

13C4-PFHpA



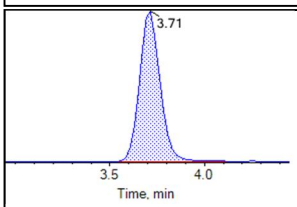

13C8-PFOA



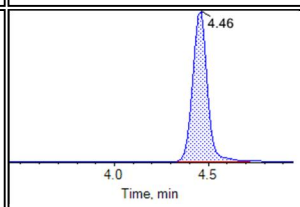

13C9-PFNA



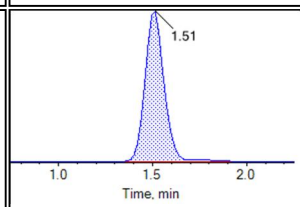

13C6-PFDA



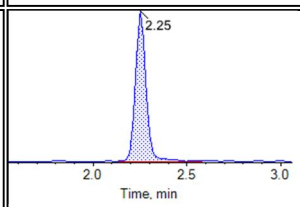

13C7-PFUnA



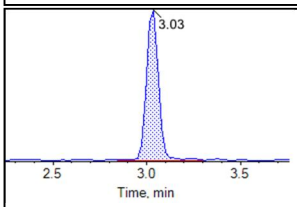

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:50:49 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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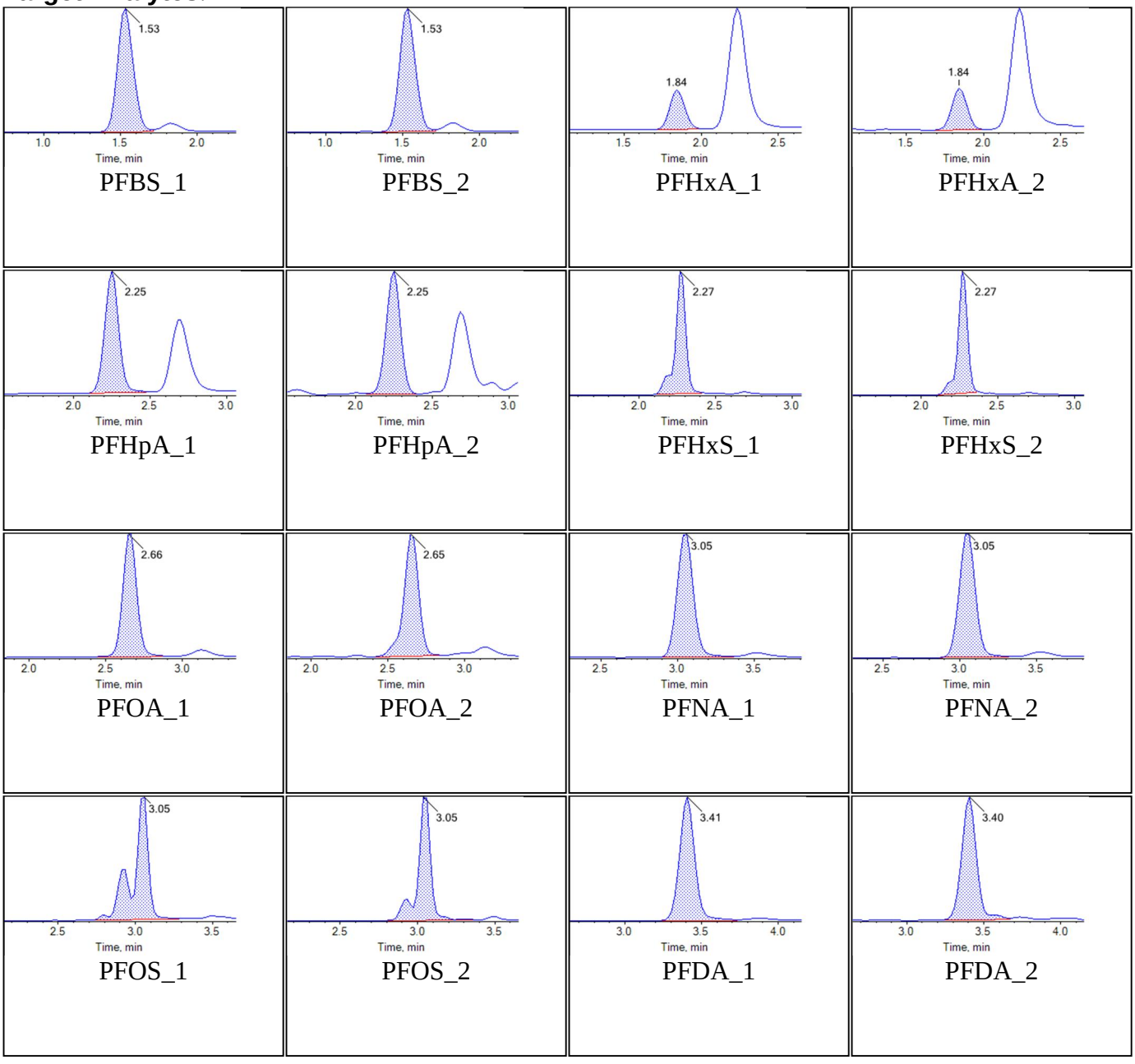

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Chromatogram Report

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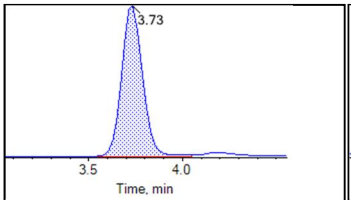
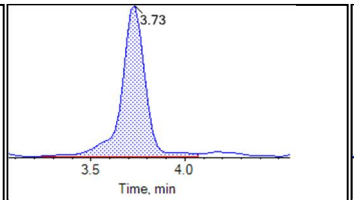
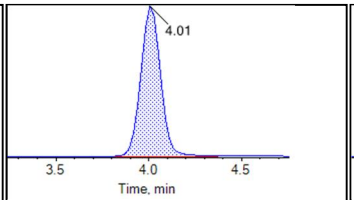


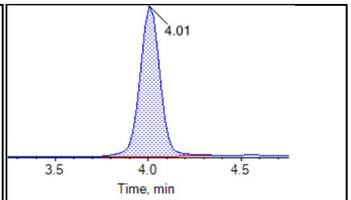
PFUnA_1



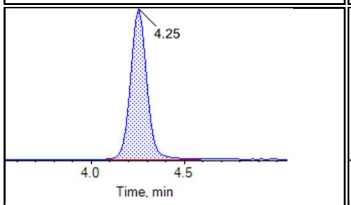
PFUnA_2



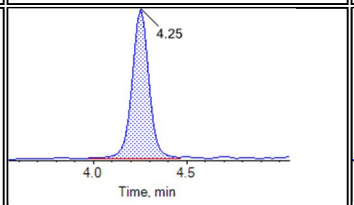
PFDoA_1



PFDoA_2



PFTrDA_1



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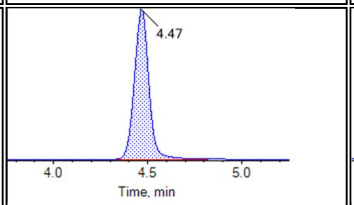
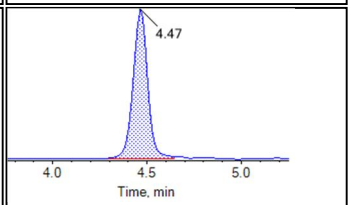
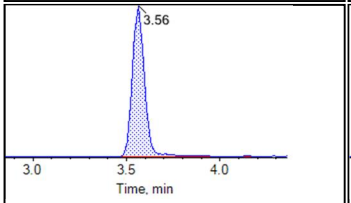


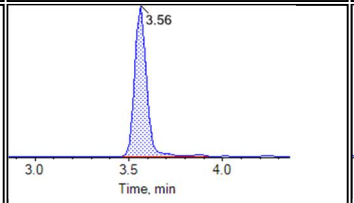
PFTeDA_1



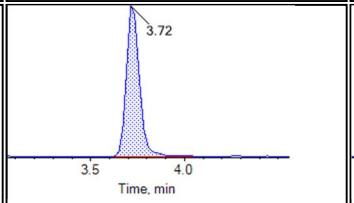
PFTeDA_2



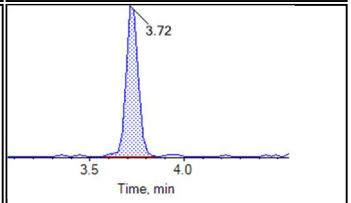
NMeFOSAA_1



NMeFOSAA_2



NEtFOSAA_1



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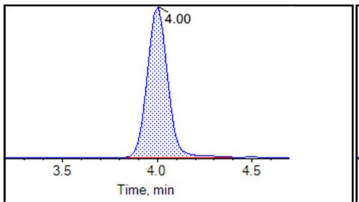
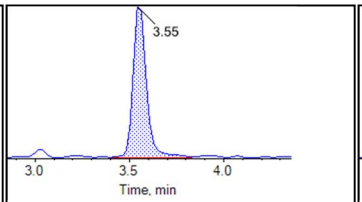
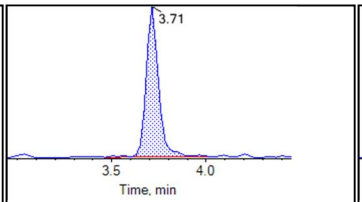


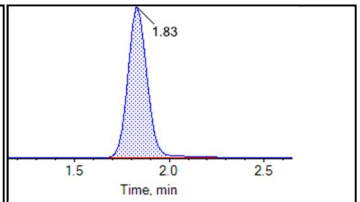
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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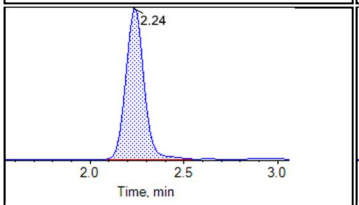

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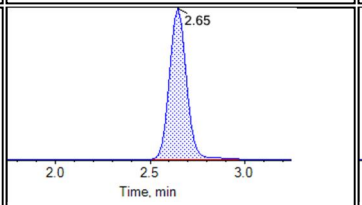

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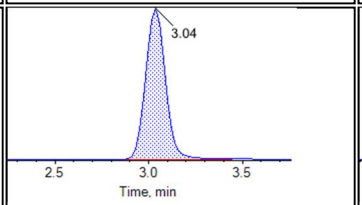
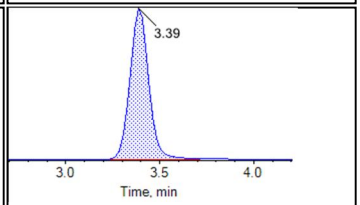


13C9-PFNA



13C6-PFDA

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Chromatogram Report

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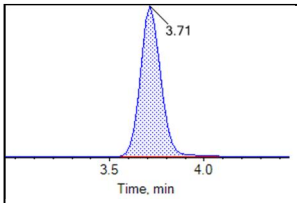
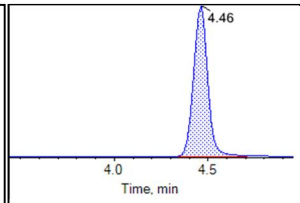



13C7-PFUnA

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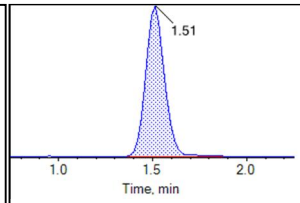
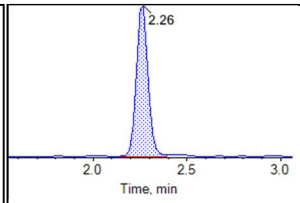
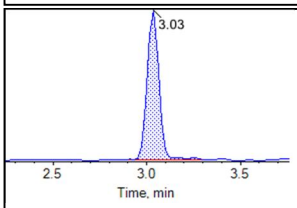



13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS(0) | **Injection Vial** | 46 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:36:09 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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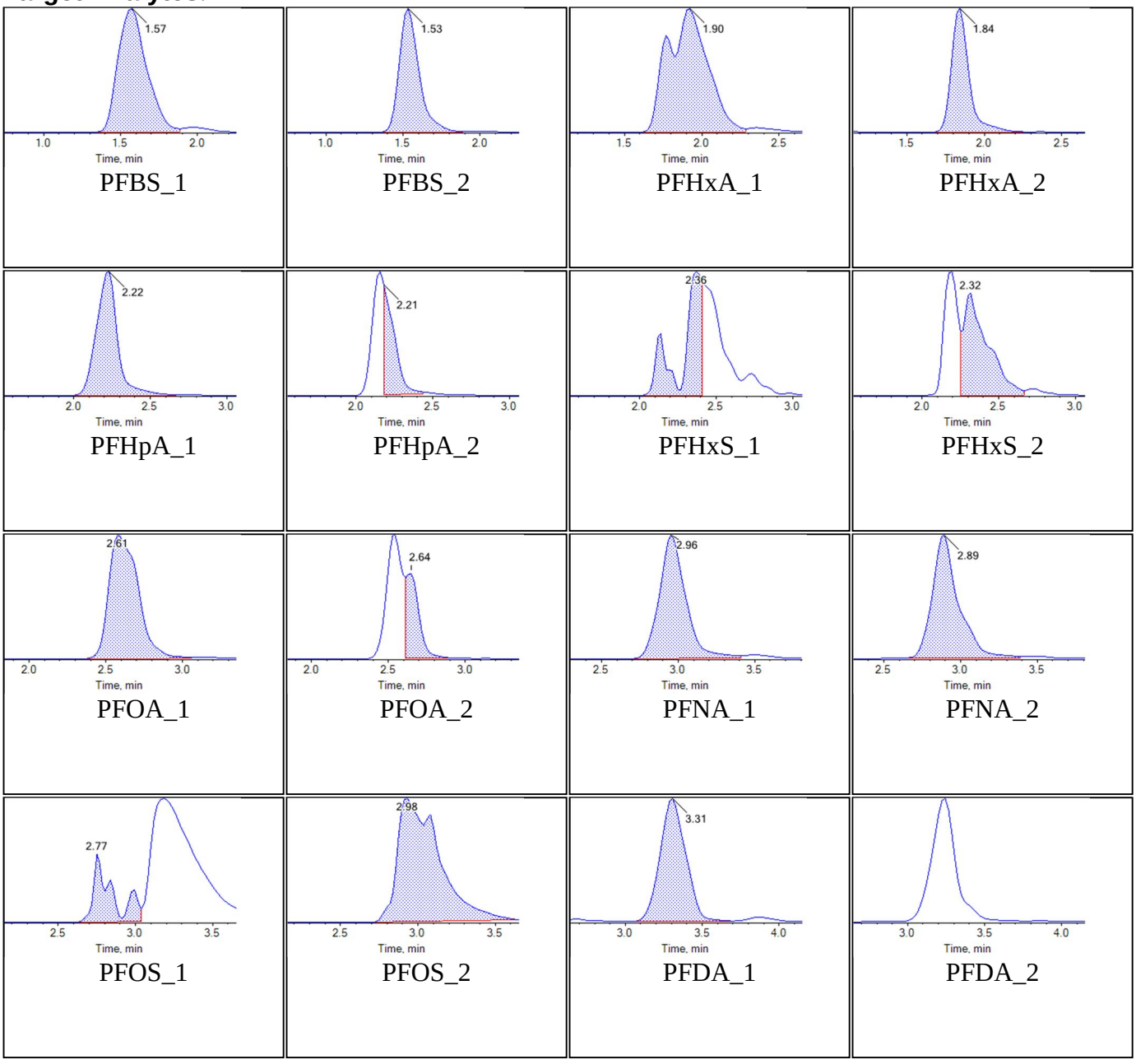

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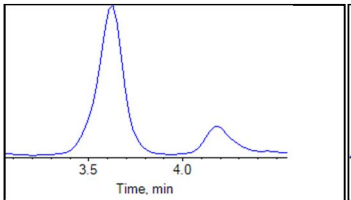

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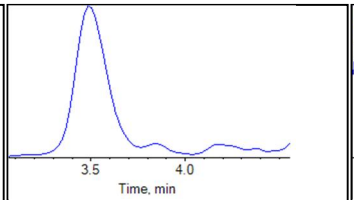

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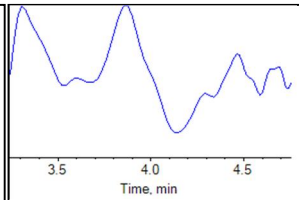

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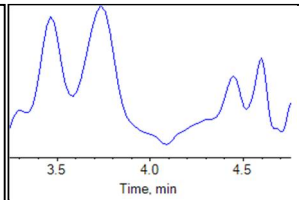

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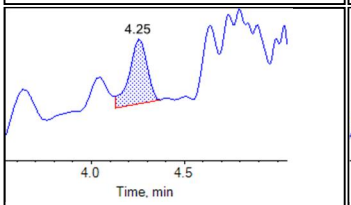

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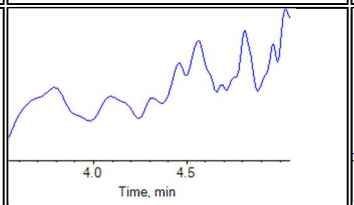

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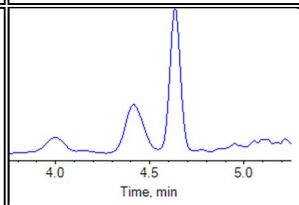

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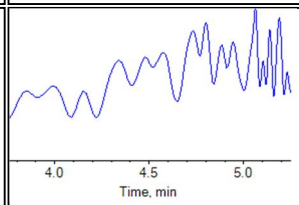

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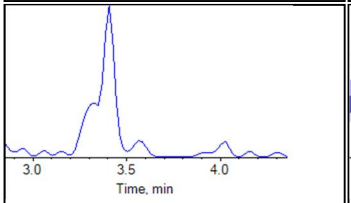

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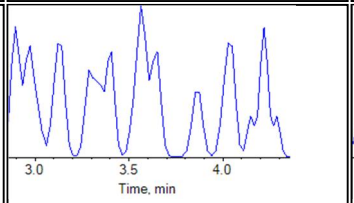

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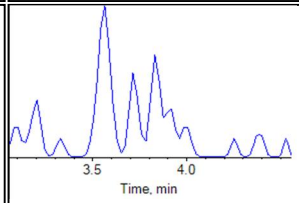

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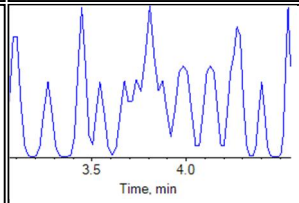

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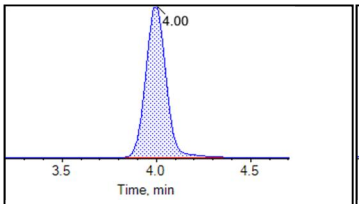

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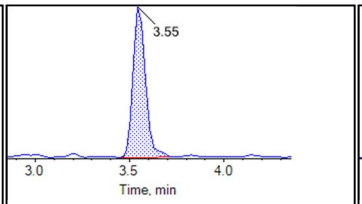

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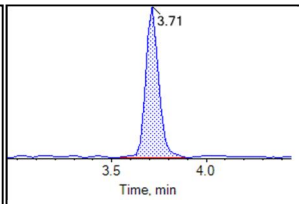
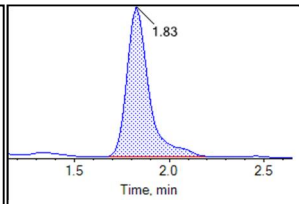
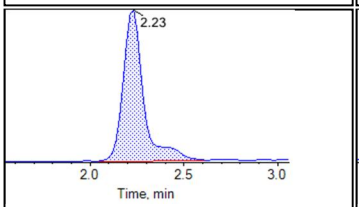


d5-EtFOSAA



13C5-PFHxA



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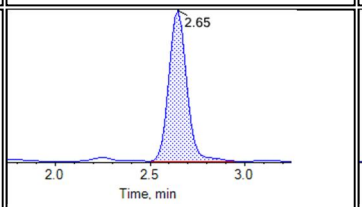

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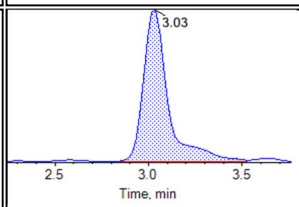
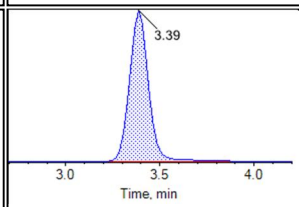


13C9-PFNA



13C6-PFDA

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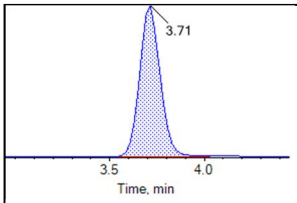
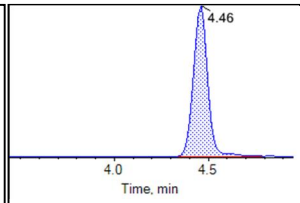



13C7-PFUnA

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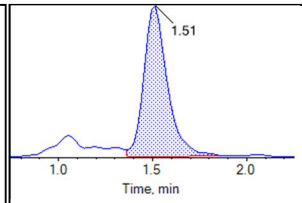
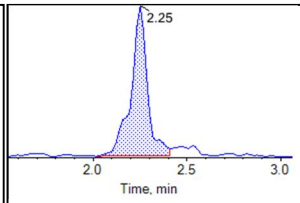



13C3-PFBS

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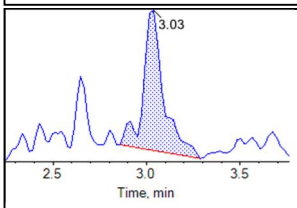


13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(7) | **Injection Vial** | 49 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:08:47 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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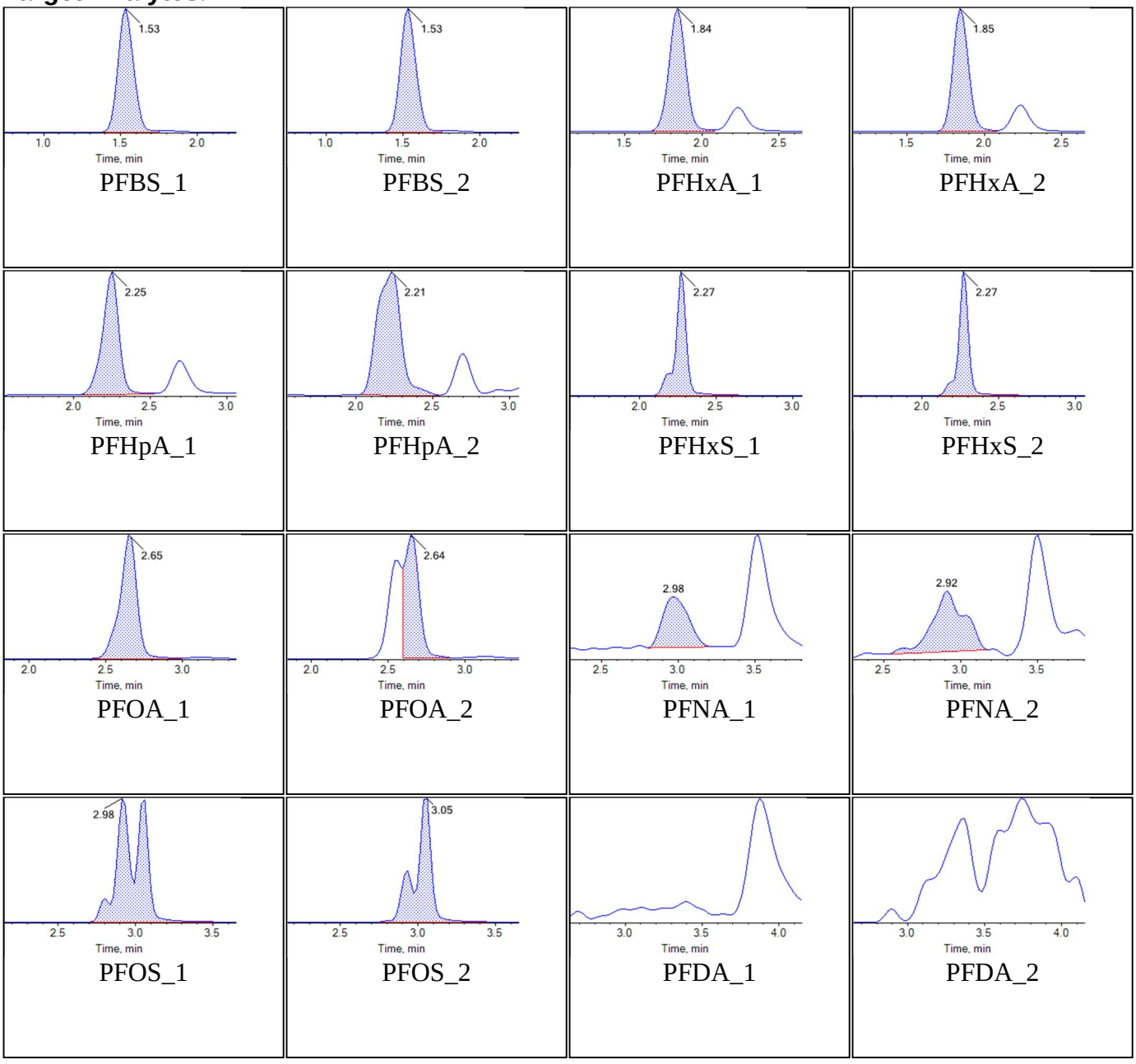

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Chromatogram Report

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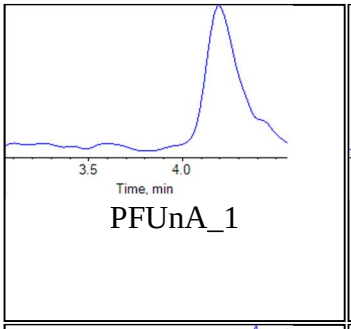

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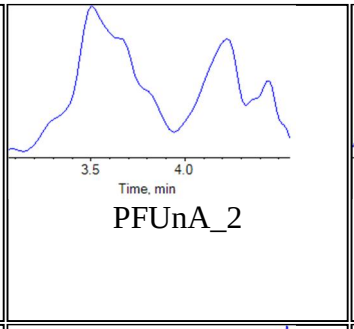

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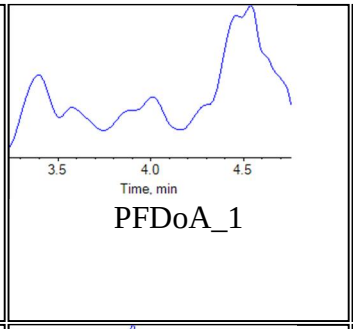

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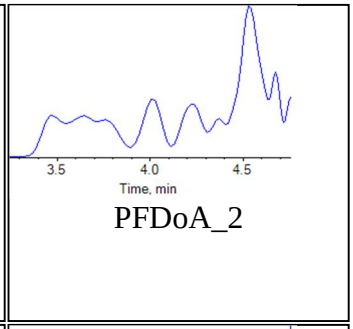
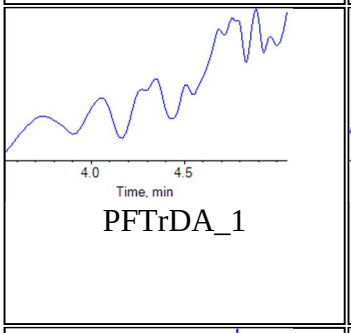


PFDoA_2



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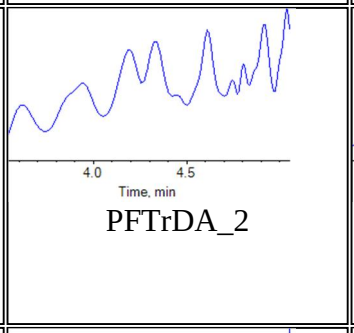
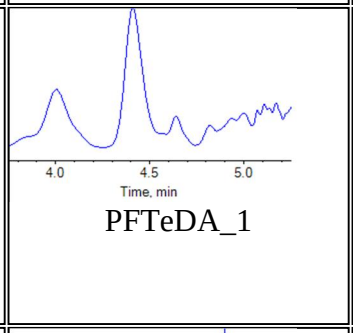


PFTrDA_2



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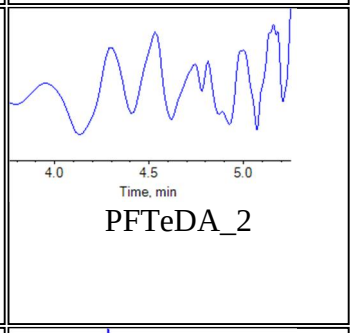

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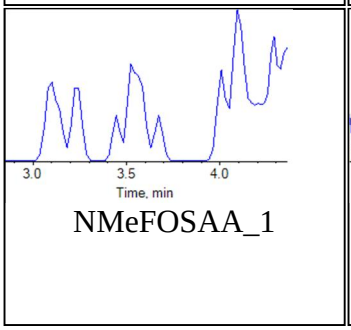

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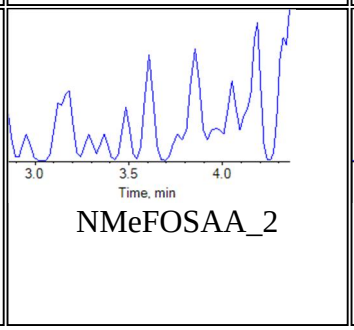

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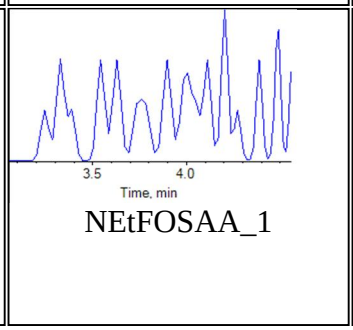

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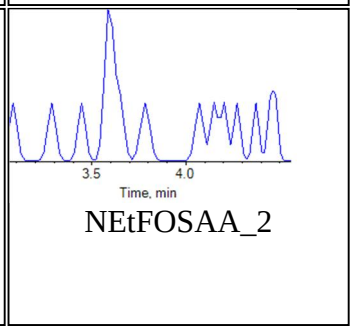

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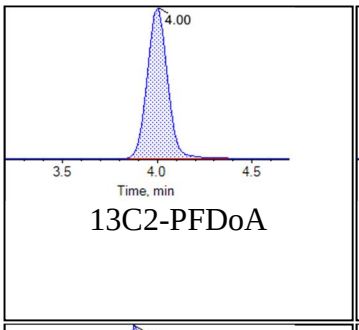

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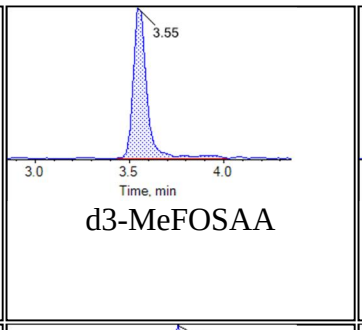

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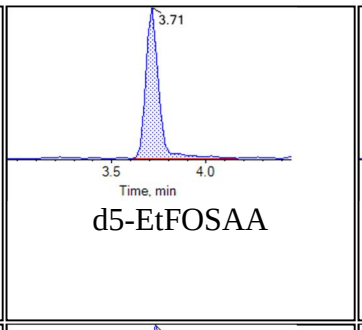

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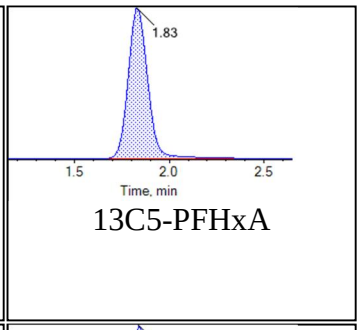

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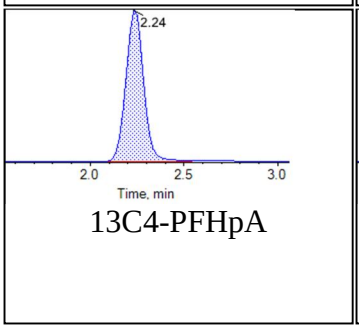

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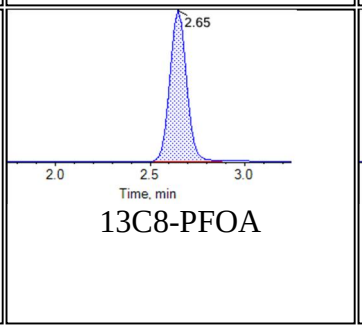

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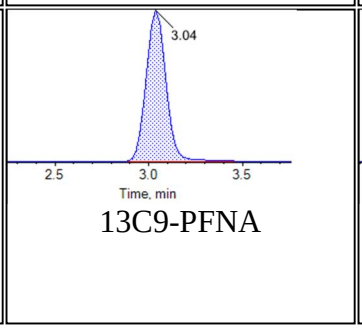

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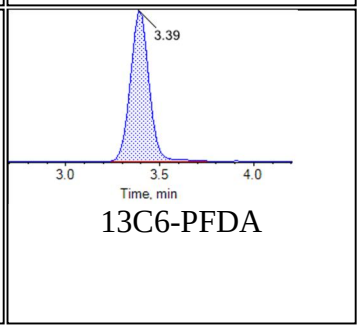

13C6-PFDA

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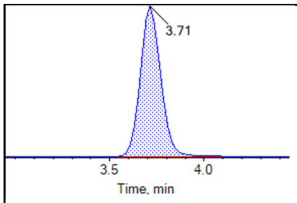


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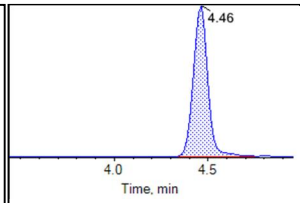


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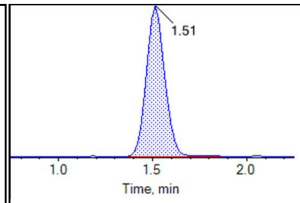


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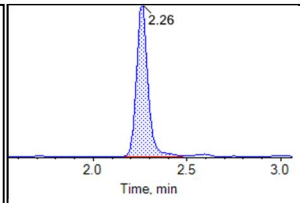


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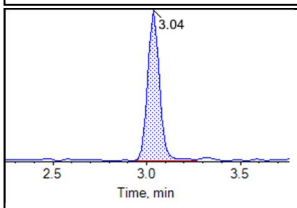


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_BASE |
| **Sample Comment** | | | |

## Chromatograms

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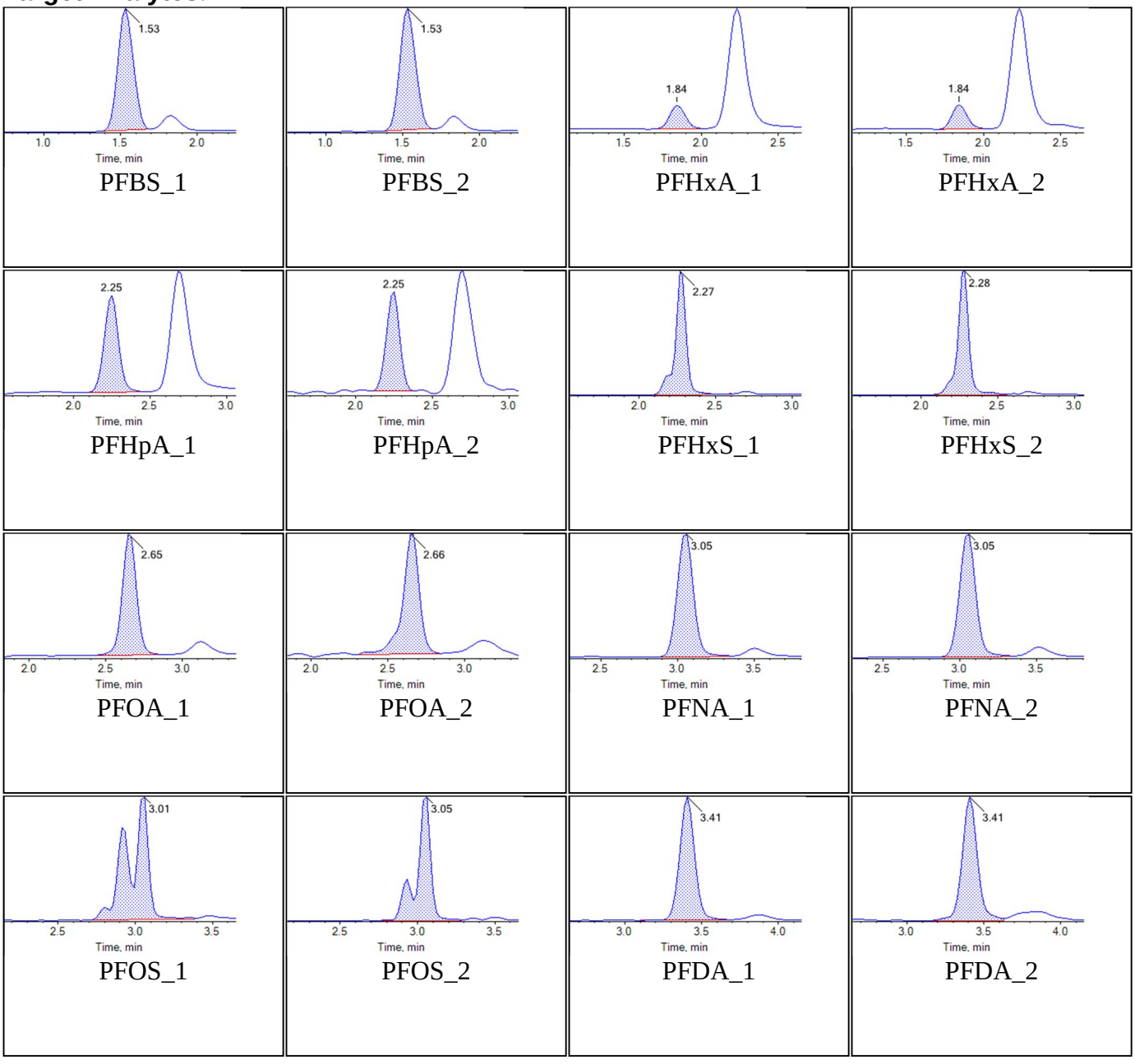

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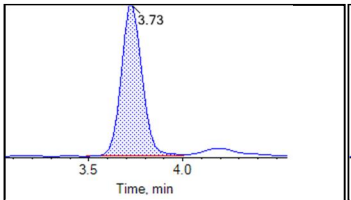

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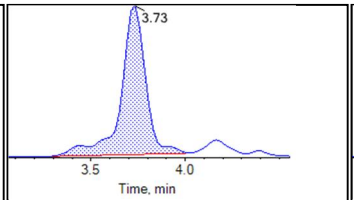

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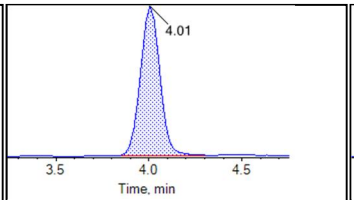

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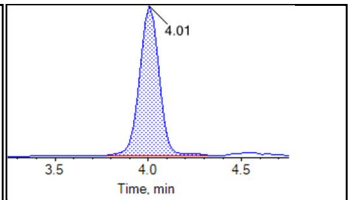

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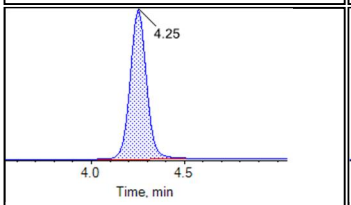

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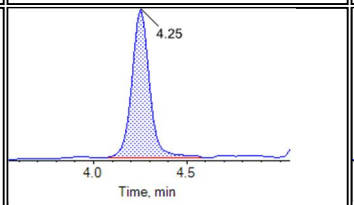

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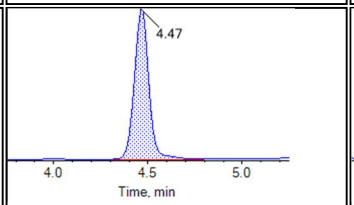

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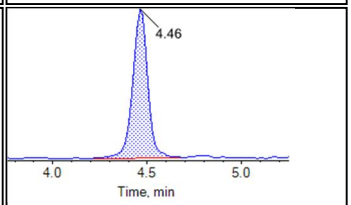

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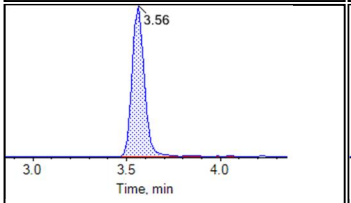

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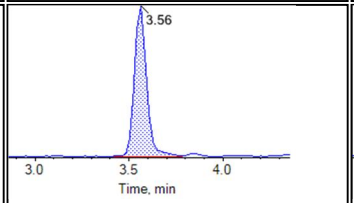

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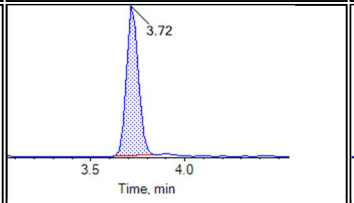

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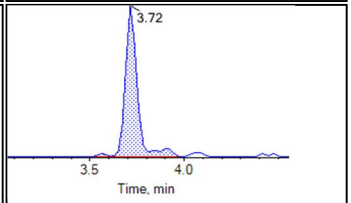

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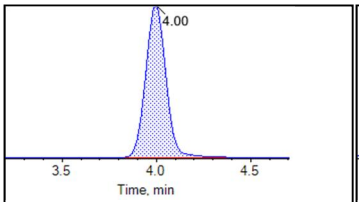

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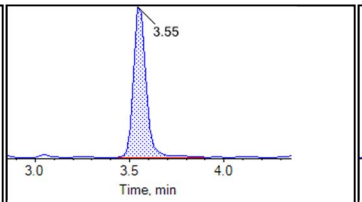

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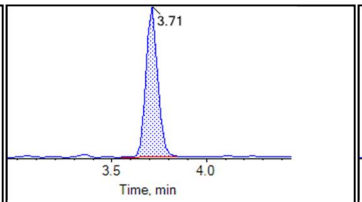
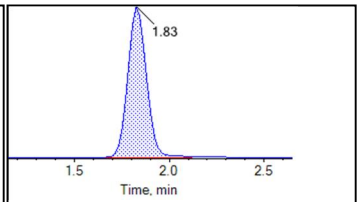


d5-EtFOSAA



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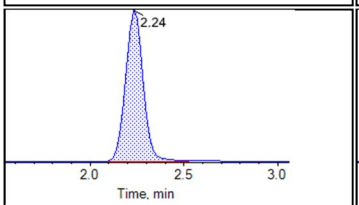

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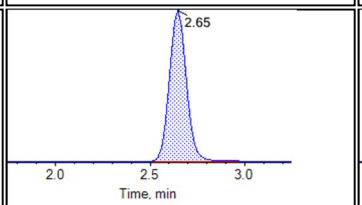

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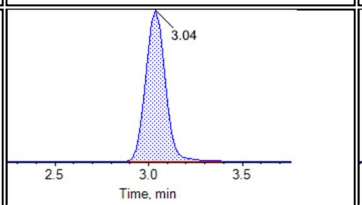

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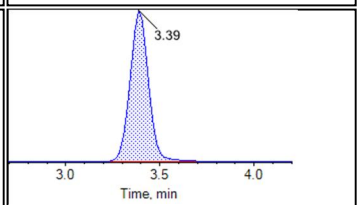

13C6-PFDA

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Chromatogram Report

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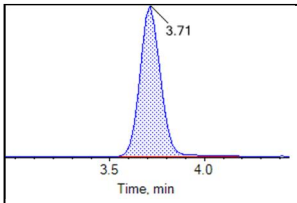


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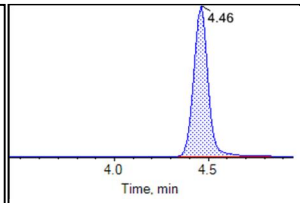


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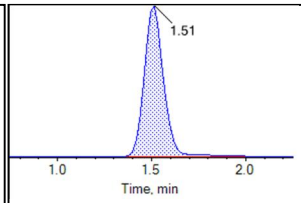


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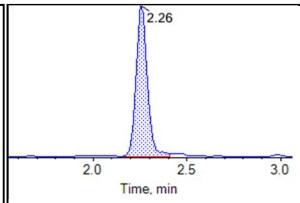


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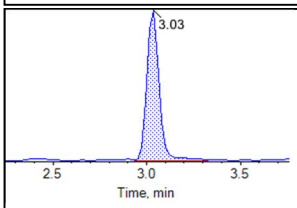


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:36:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:28:31 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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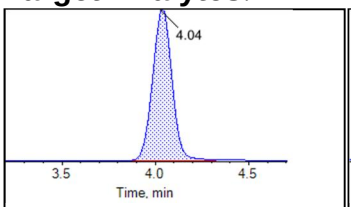

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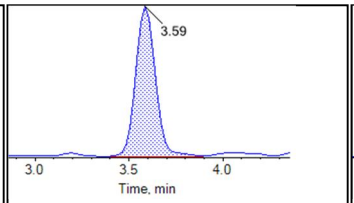

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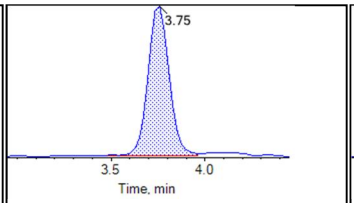

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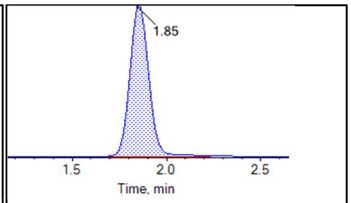

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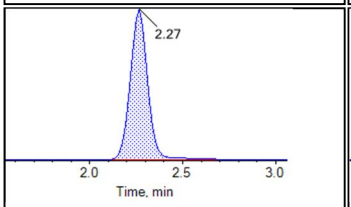

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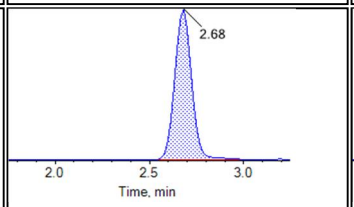

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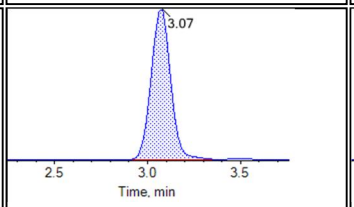

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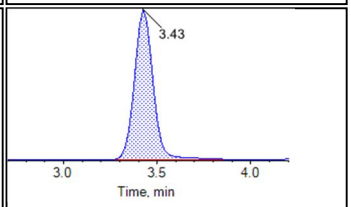
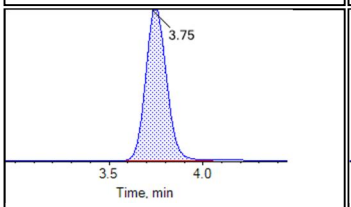
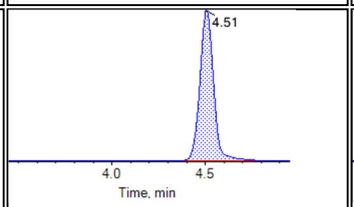


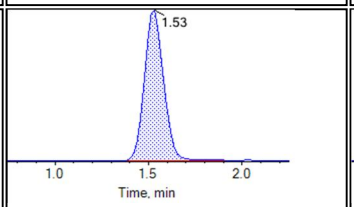
13C6-PFDA



13C7-PFUnA



13C2-PFTeDA



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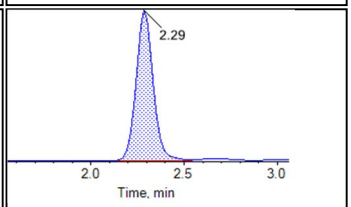
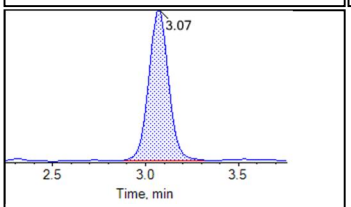


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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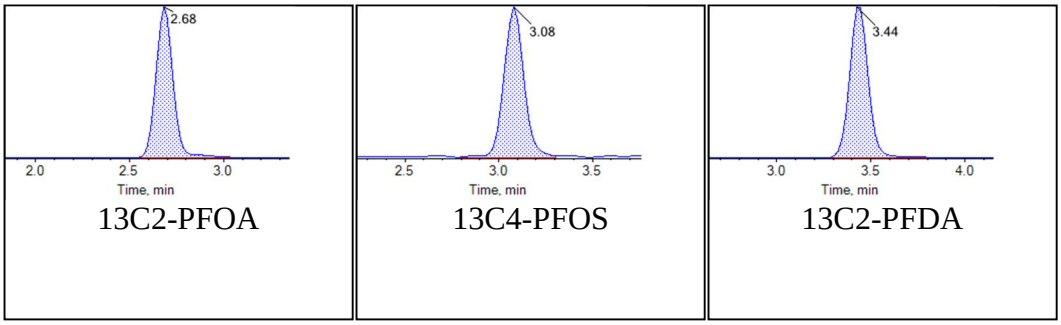
**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:39:24 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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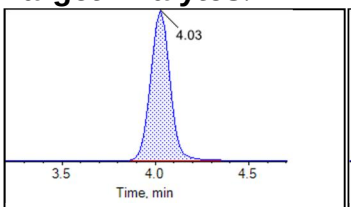
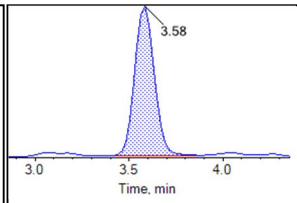
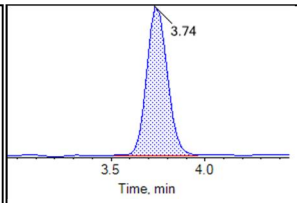


13C2-PFDoA



d3-MeFOSAA



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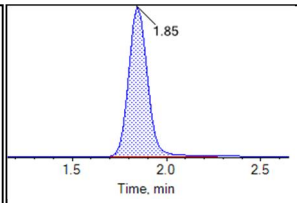

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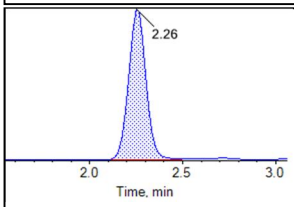

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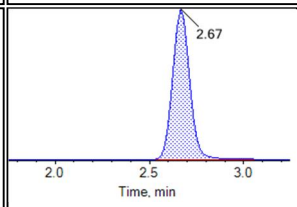

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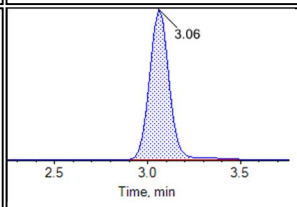
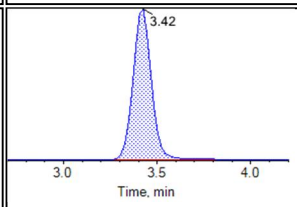


13C9-PFNA



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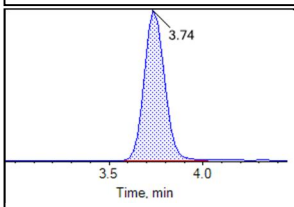
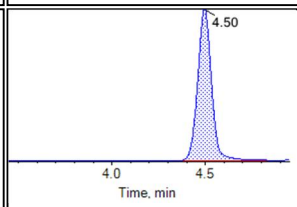
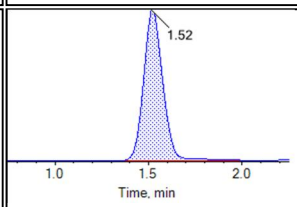


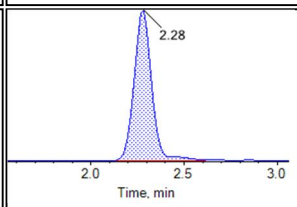
13C7-PFUnA



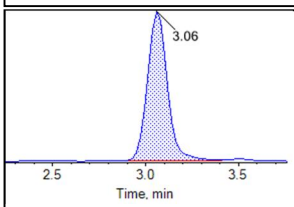
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
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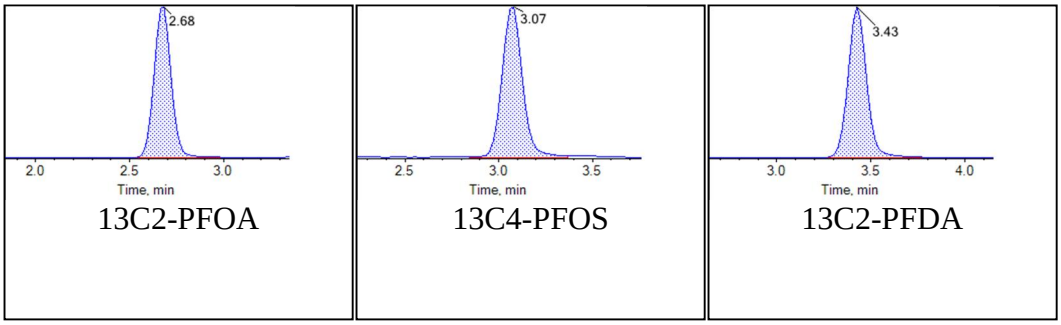

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:36:21 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T10:50:18 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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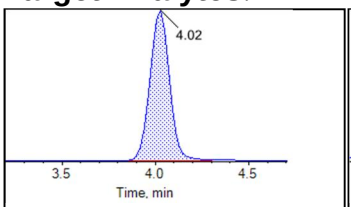

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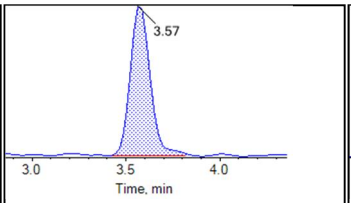
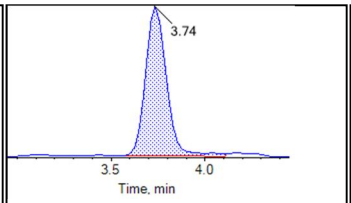


d3-MeFOSAA



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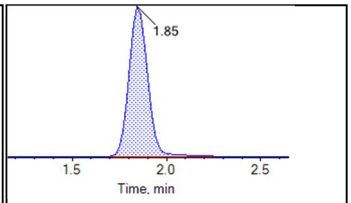

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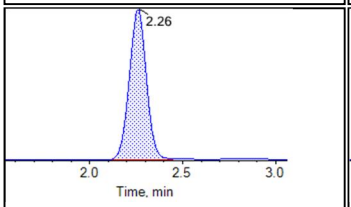

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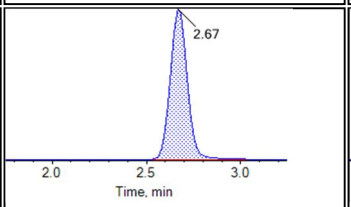

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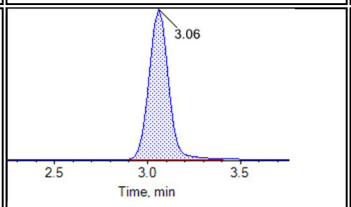

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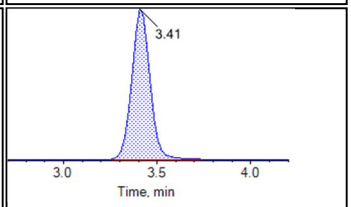

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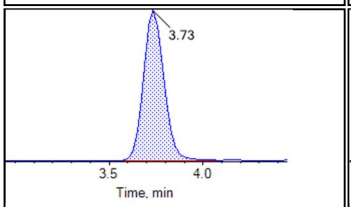
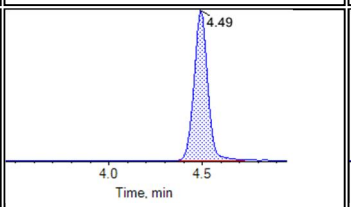


13C7-PFUnA



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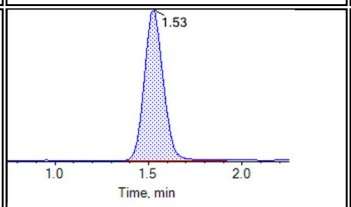

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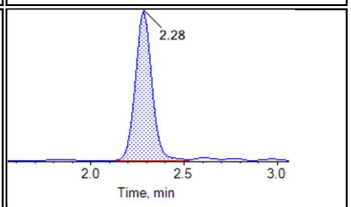
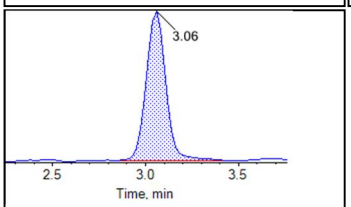


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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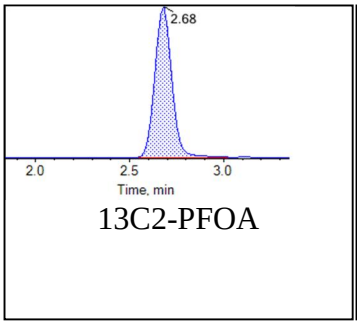


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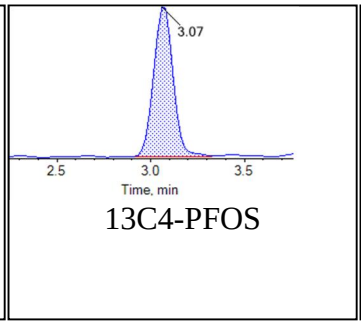


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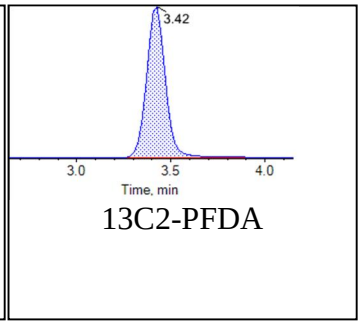


13C2-PFDA

BATTELLE

Chromatogram Report

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Printed: 22/10/2018 1:36:25 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:01:11 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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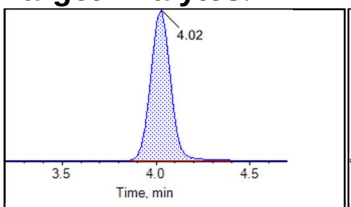

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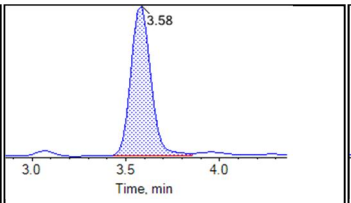
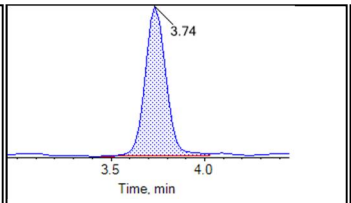


d3-MeFOSAA



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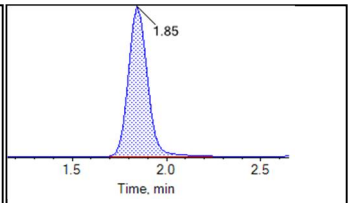

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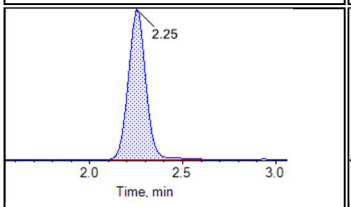

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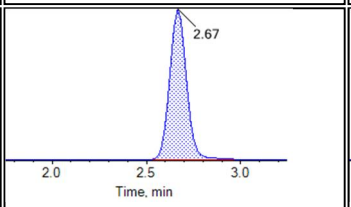

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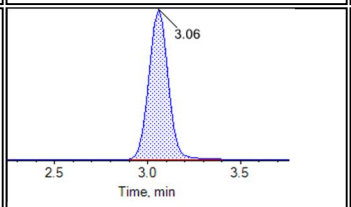

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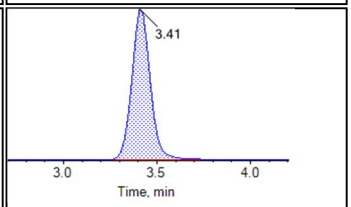
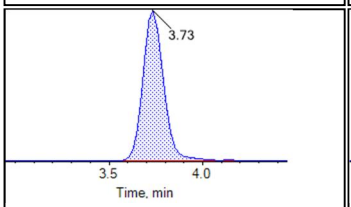


13C6-PFDA



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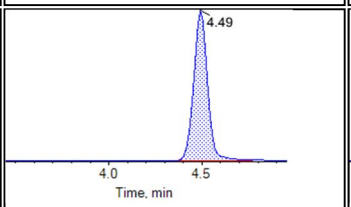
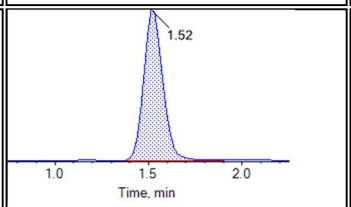


13C2-PFTeDA



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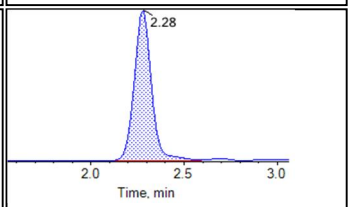

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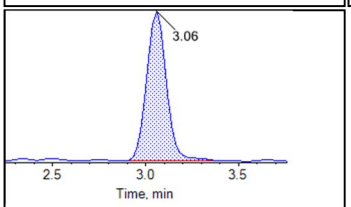

13C8-PFOS

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Chromatogram Report

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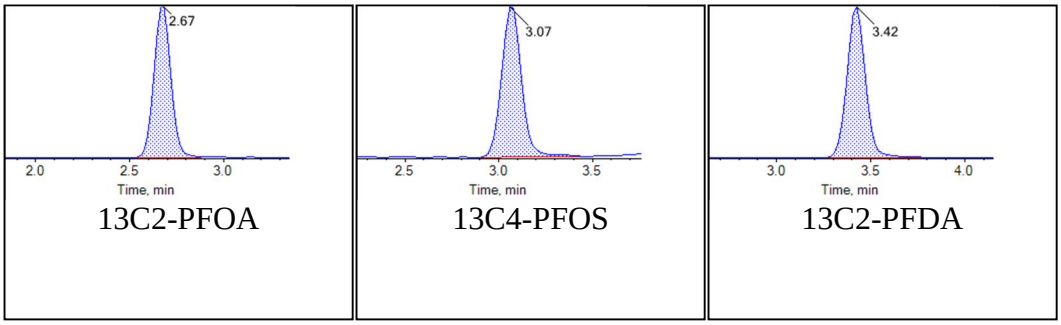
**Internal Standards:**



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Chromatogram Report

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Printed: 22/10/2018 1:36:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:12:02 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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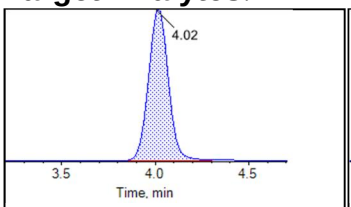
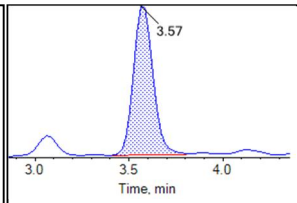
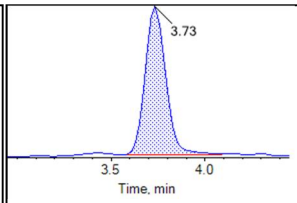


13C2-PFDoA



d3-MeFOSAA



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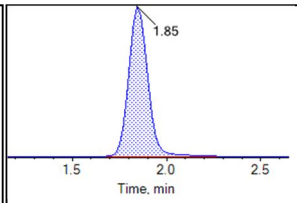

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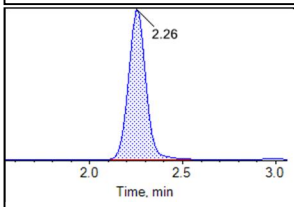

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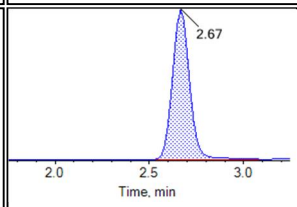
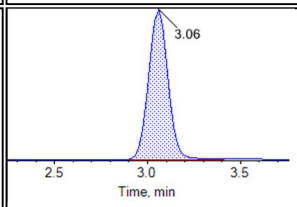
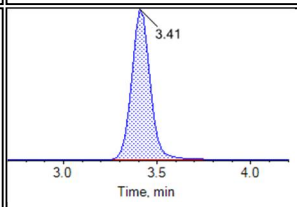


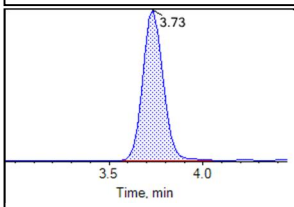
13C8-PFOA



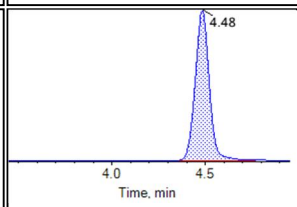
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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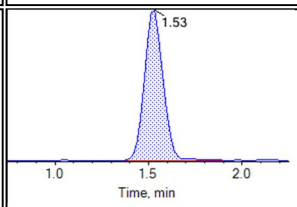

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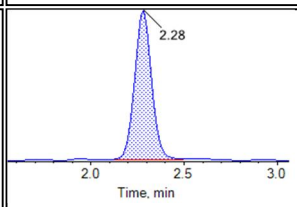
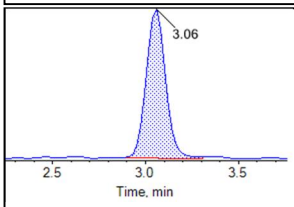


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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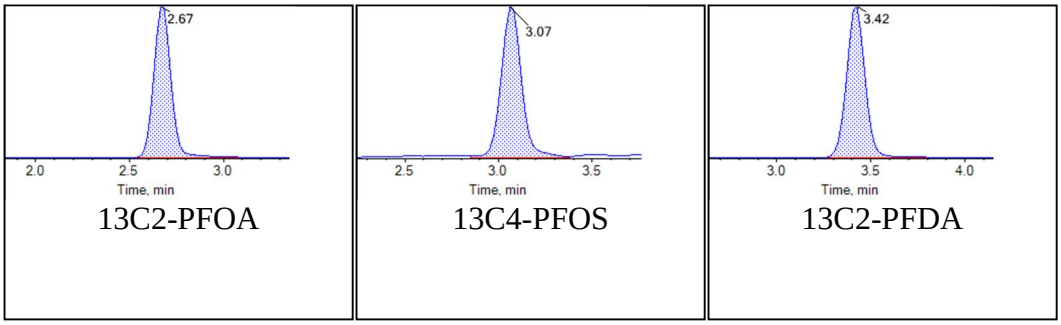
Printed: 22/10/2018 1:36:29 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:36:34 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:22:53 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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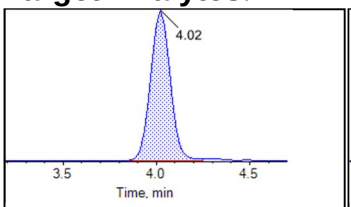
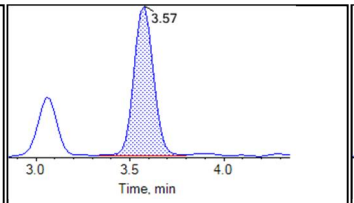
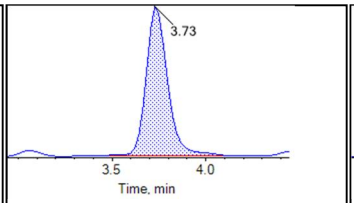


13C2-PFDoA



d3-MeFOSAA



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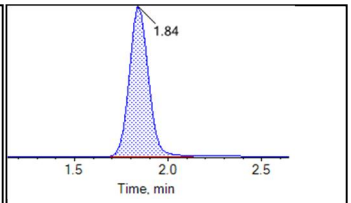

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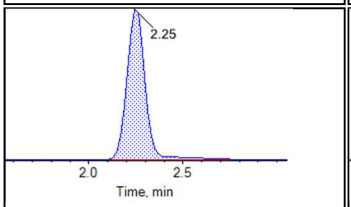
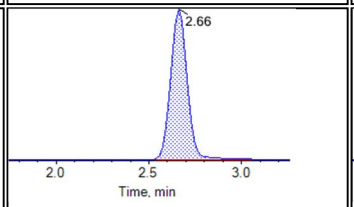
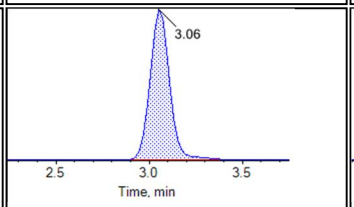


13C4-PFHpA



13C8-PFOA



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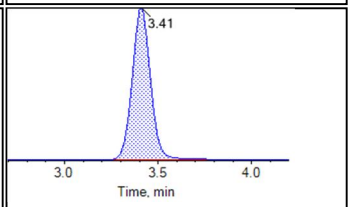

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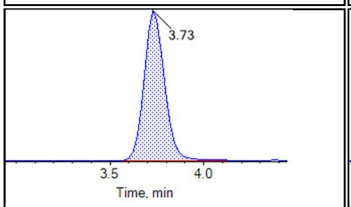
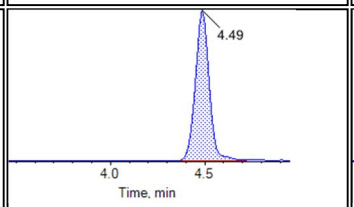
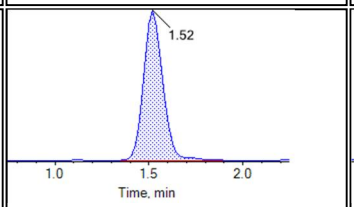


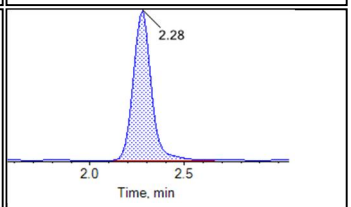
13C7-PFUnA



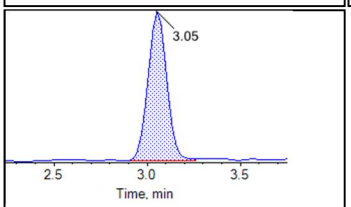
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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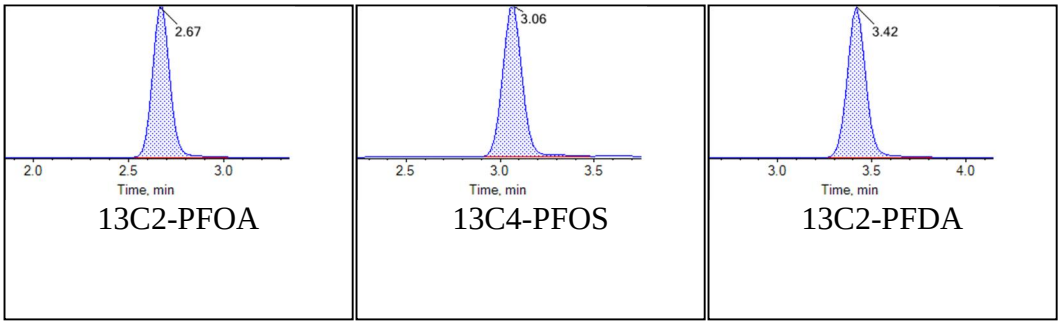
Printed: 22/10/2018 1:36:34 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:36:38 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:33:45 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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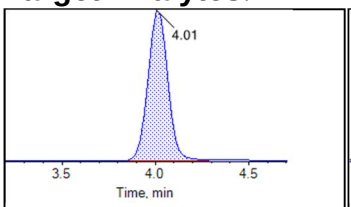

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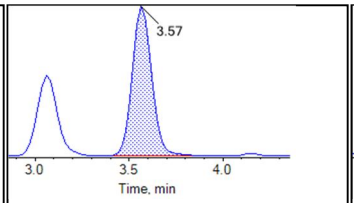
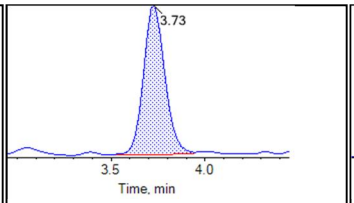
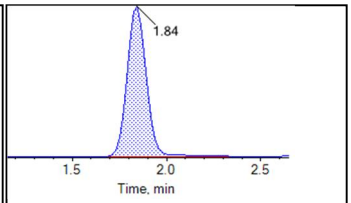


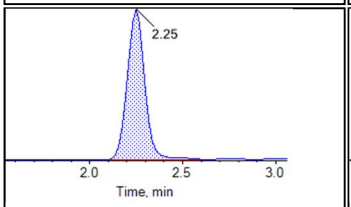
d3-MeFOSAA



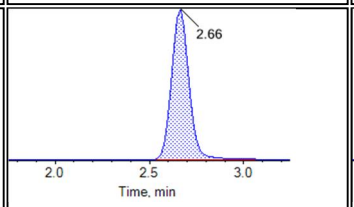
d5-EtFOSAA



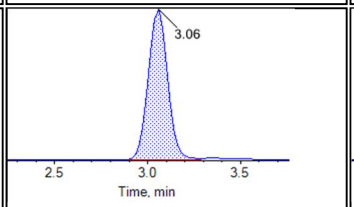
13C5-PFHxA



13C4-PFHpA



13C8-PFOA



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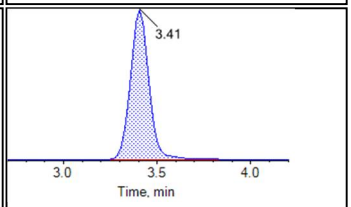
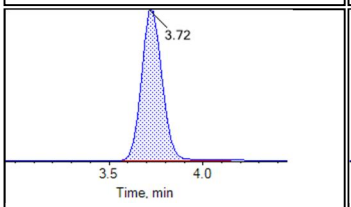
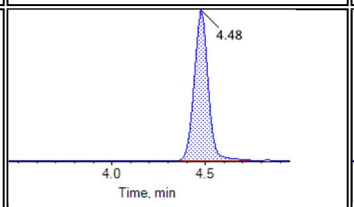


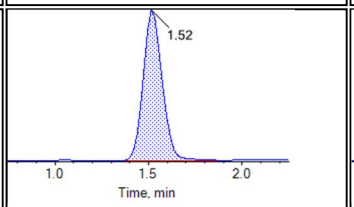
13C6-PFDA



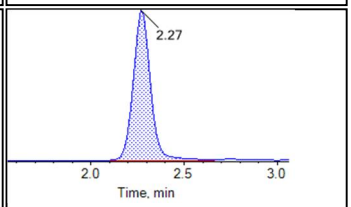
13C7-PFUnA



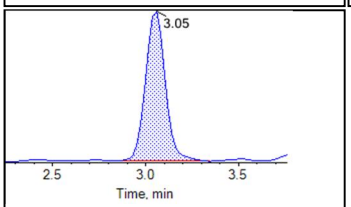
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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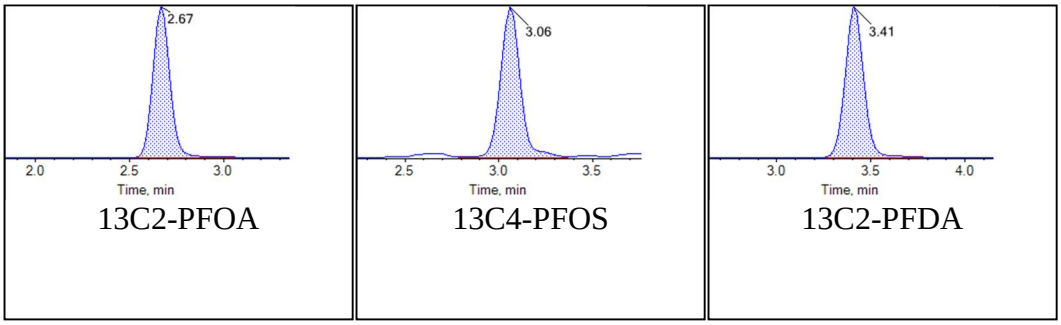
Printed: 22/10/2018 1:36:38 PM

**Internal Standards:**



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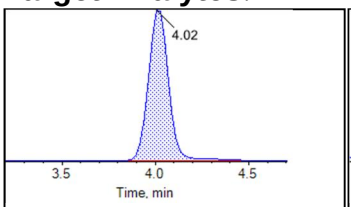
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:36:42 PM

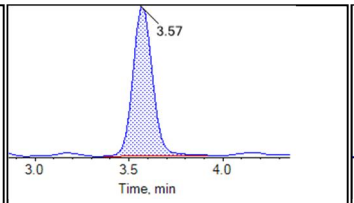
| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:44:37 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

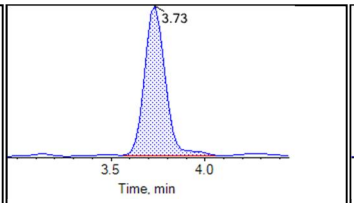
### Target Analytes:



13C2-PFDoA



d3-MeFOSAA



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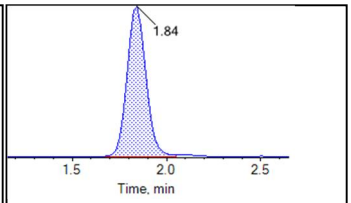

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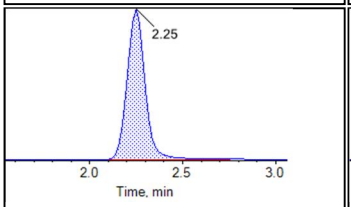

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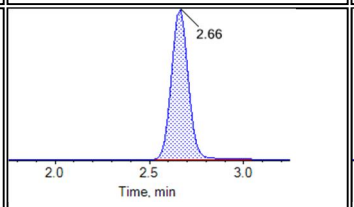
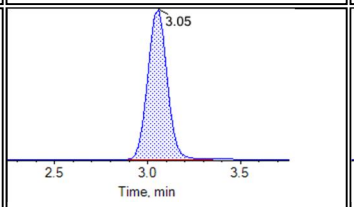
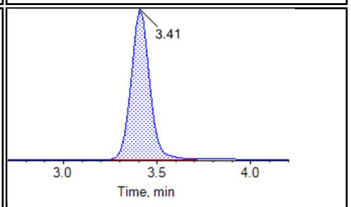


13C8-PFOA



13C9-PFNA



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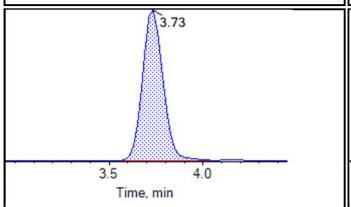
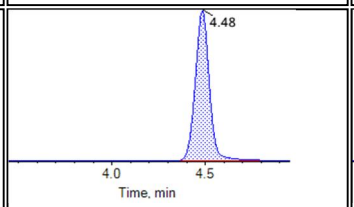
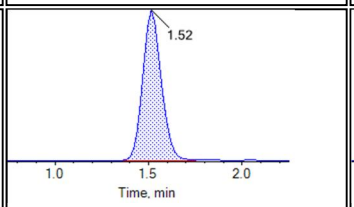


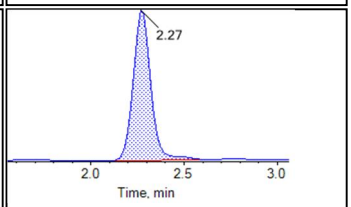
13C7-PFUnA



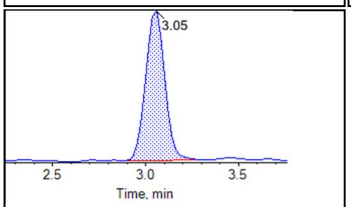
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
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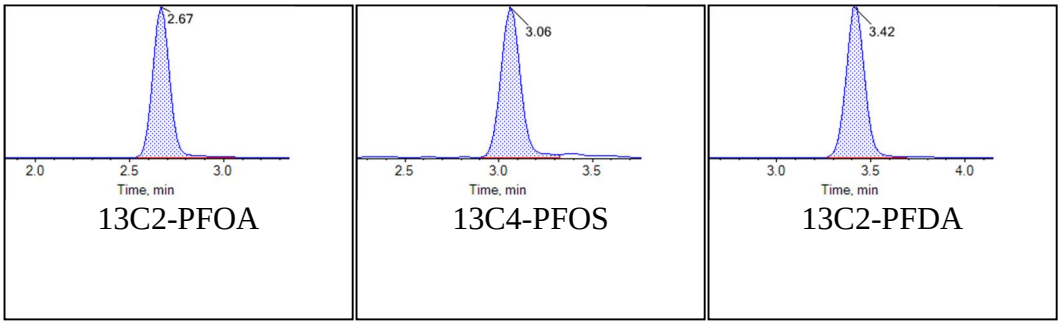
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:36:47 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T11:55:29 | **Data File** | 18-0568B.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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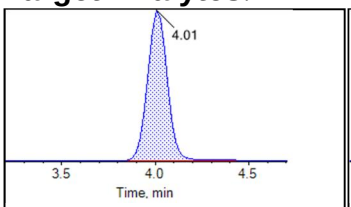

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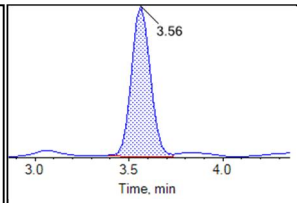
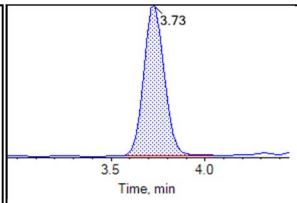


d3-MeFOSAA



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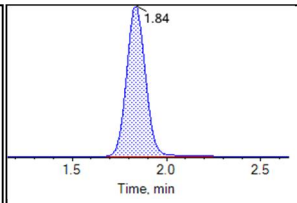

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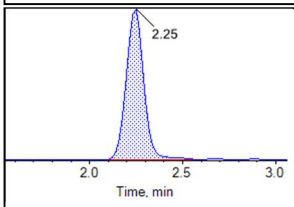

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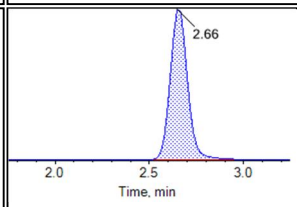

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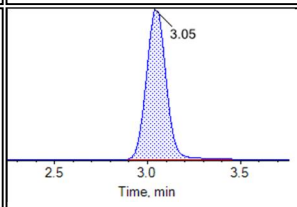
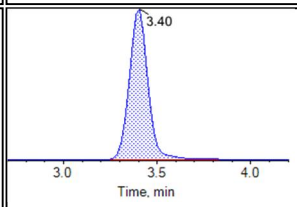
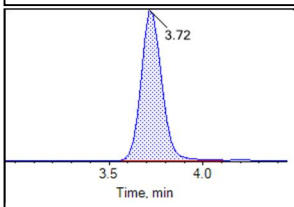


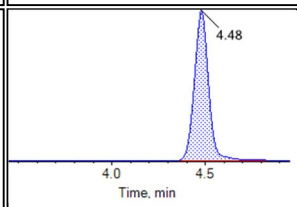
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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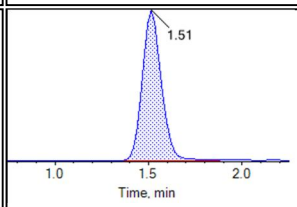

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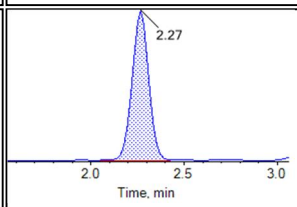
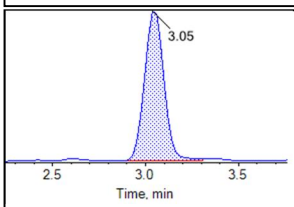


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
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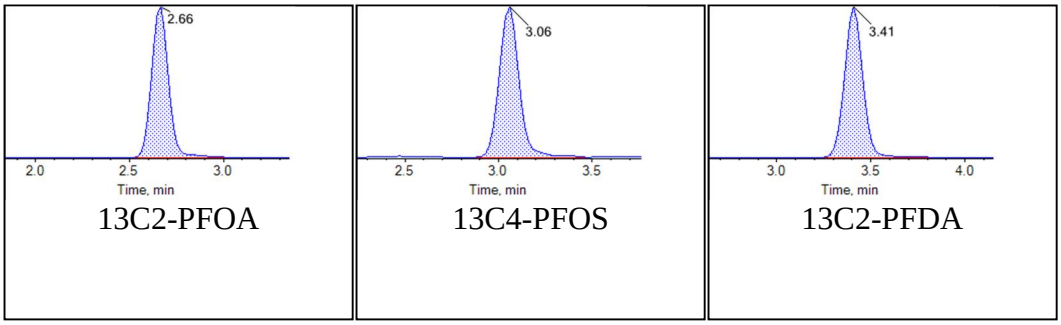
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:36:57 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 22 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:28:17 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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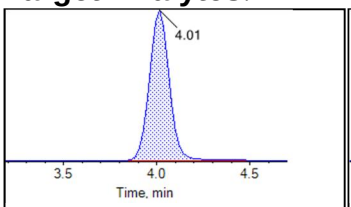

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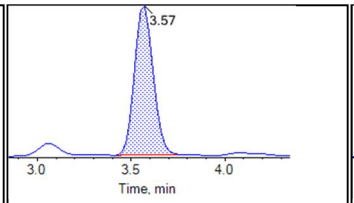

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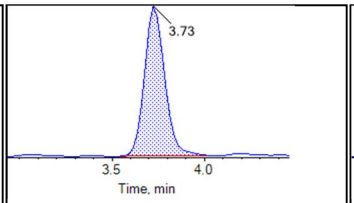

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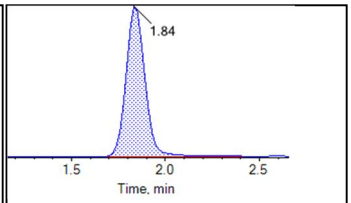

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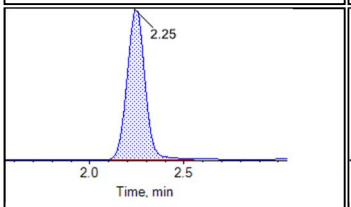

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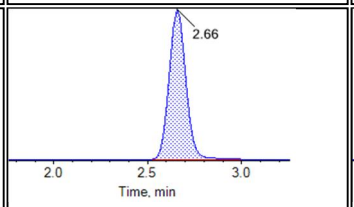

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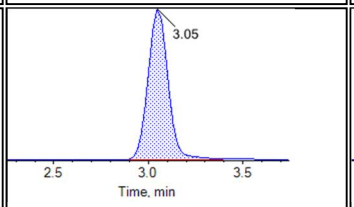

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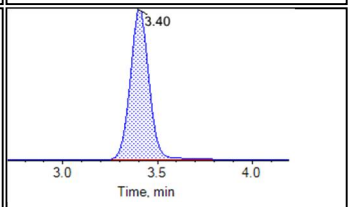
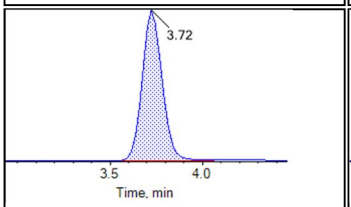
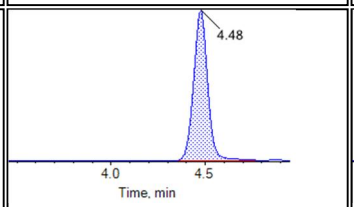


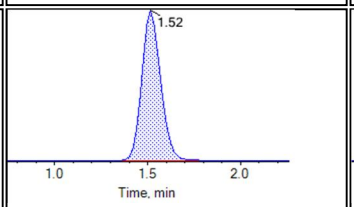
13C6-PFDA



13C7-PFUnA



13C2-PFTeDA



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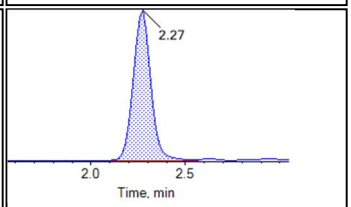
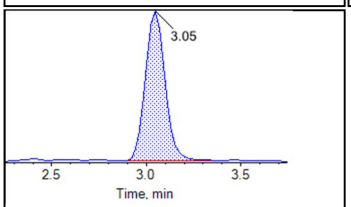


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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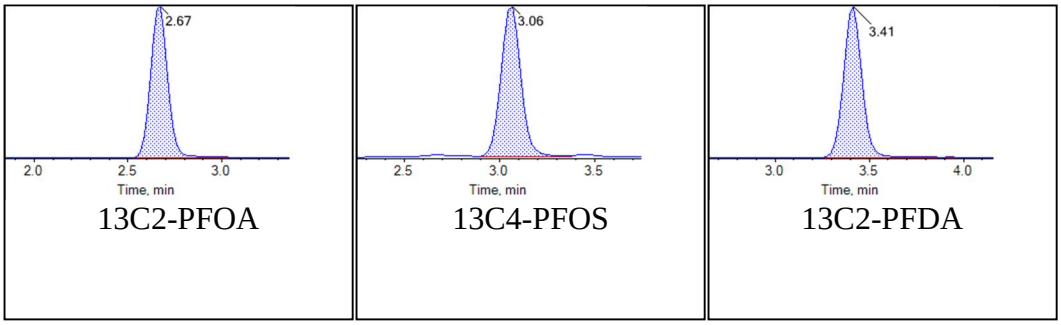
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | CR884PB-FS(0) | **Injection Vial** | 24 |
| **Sample ID** | Procedural Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T21:50:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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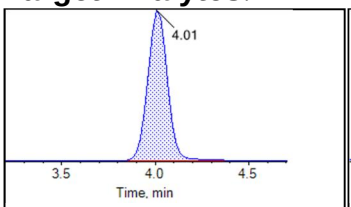
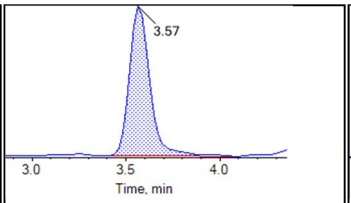
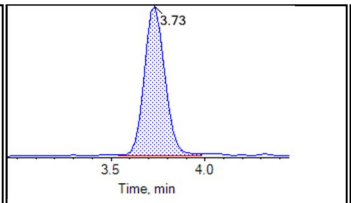


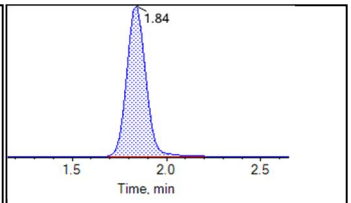
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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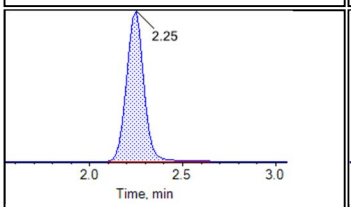

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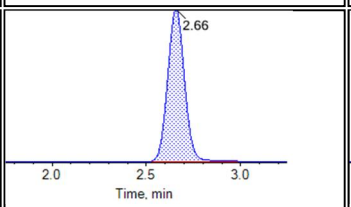

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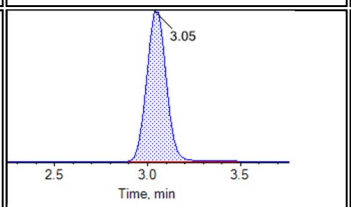

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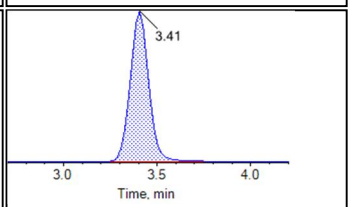

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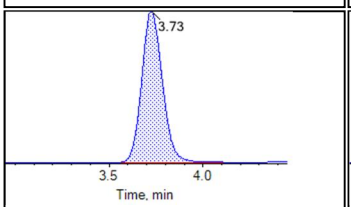

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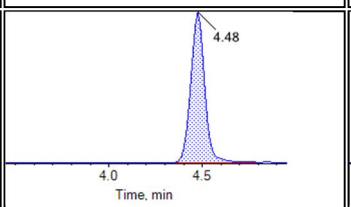

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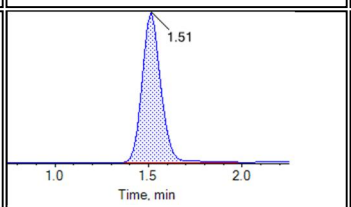

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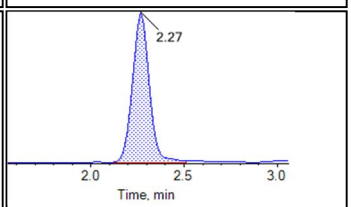

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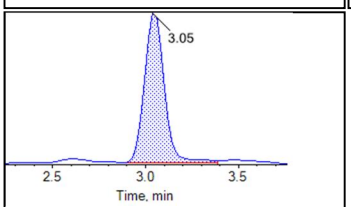

13C8-PFOS

Chromatogram Report

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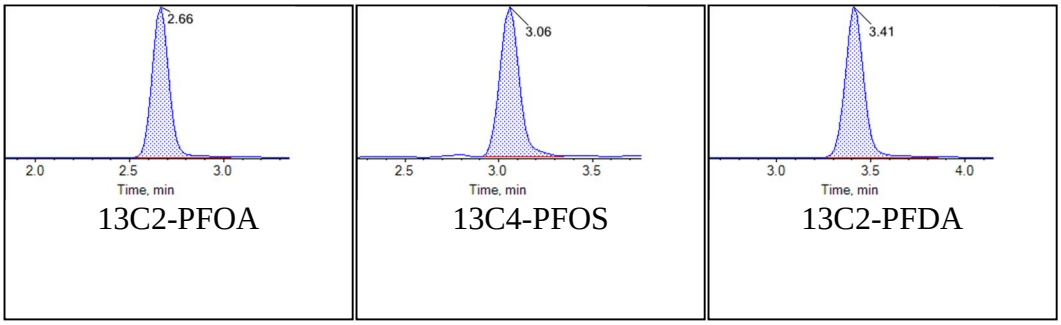
**Internal Standards:**



BATTELLE

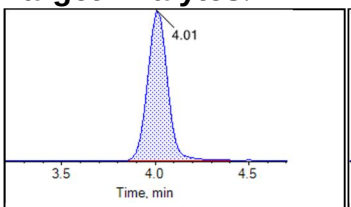
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | CR885LCS-FS(0) | **Injection Vial** | 25 |
| **Sample ID** | Laboratory Control Sample | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:00:52 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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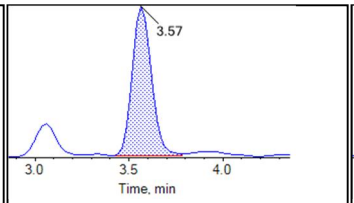
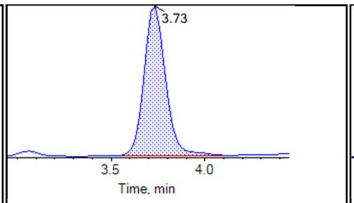
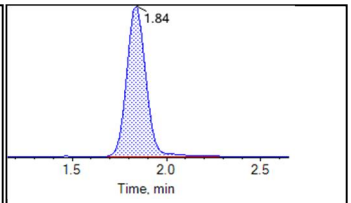


d3-MeFOSAA



d5-EtFOSAA



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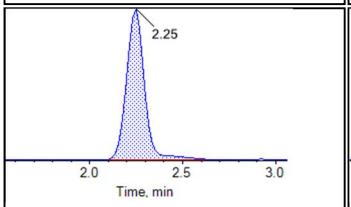

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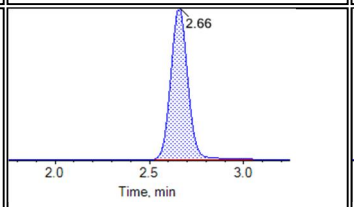
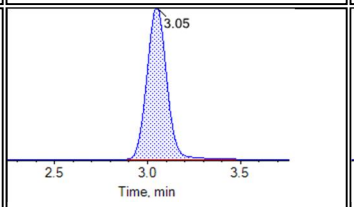
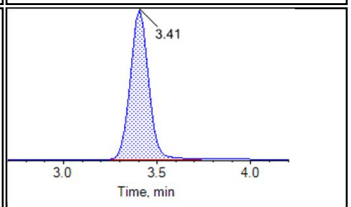


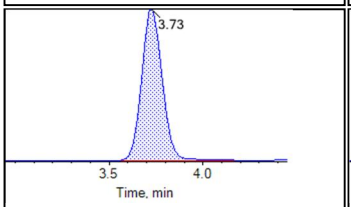
13C8-PFOA



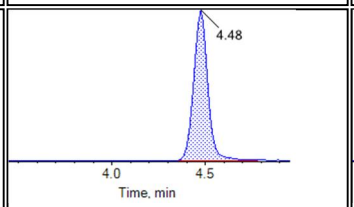
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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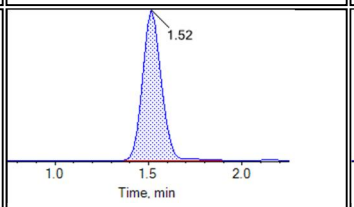

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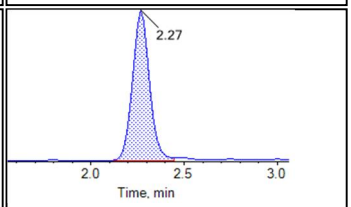
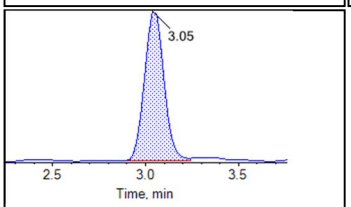


13C3-PFHxS

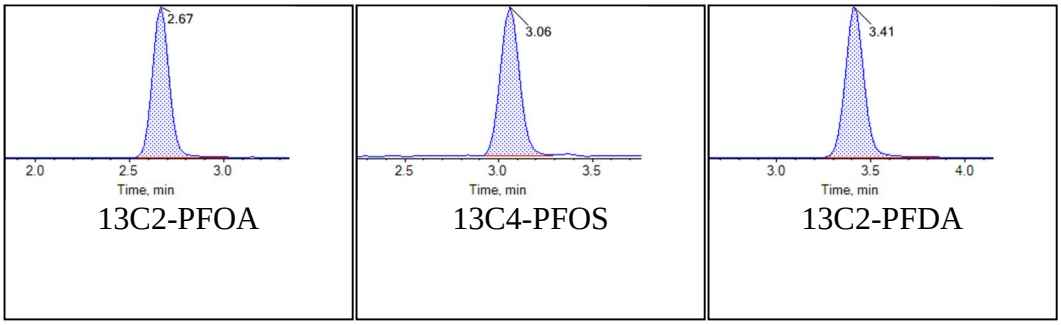


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:13 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8308-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-SO-FB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:11:44 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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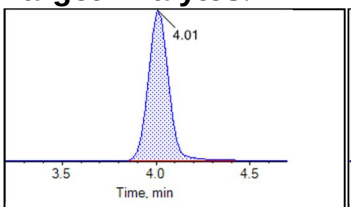

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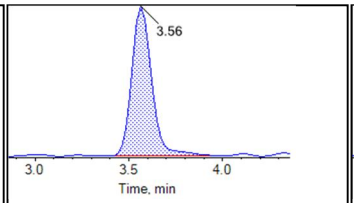

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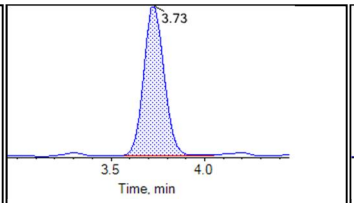

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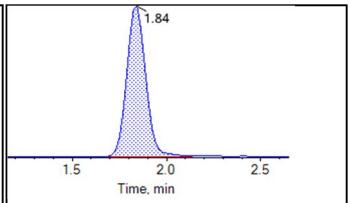

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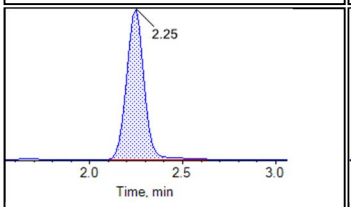

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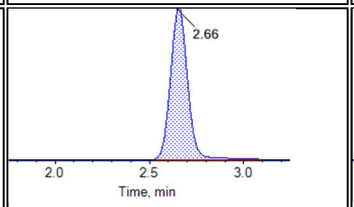

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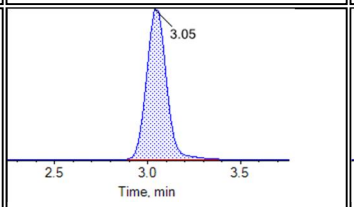

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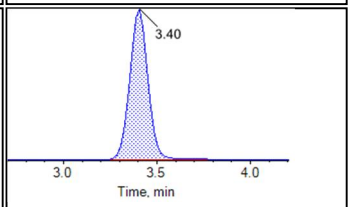
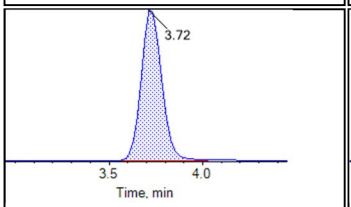
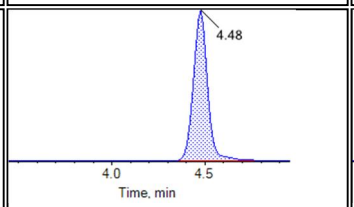


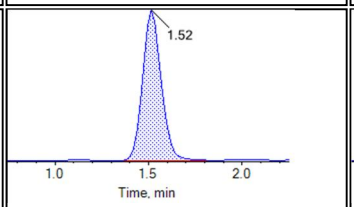
13C6-PFDA



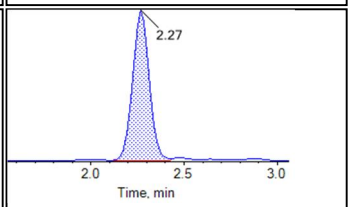
13C7-PFUnA



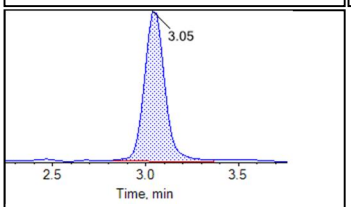
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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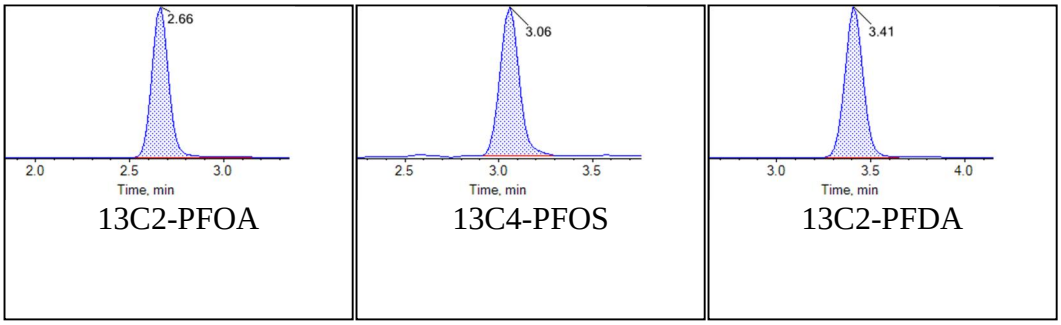
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:17 PM

**Internal Standards:**



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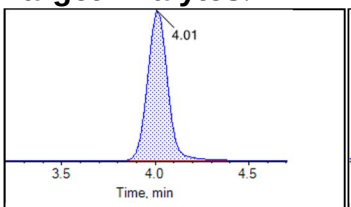
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:21 PM

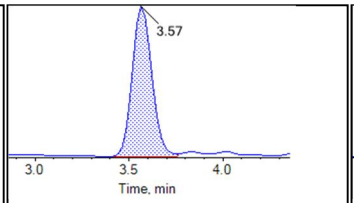
| | | | |
|---|---|---|---|
| **Sample Name** | J8324-FS(0) | **Injection Vial** | 27 |
| **Sample ID** | VC-AQ-EB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:22:35 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

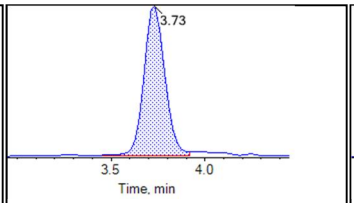
### Target Analytes:



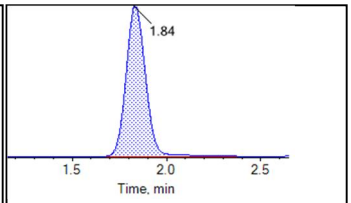
13C2-PFDoA



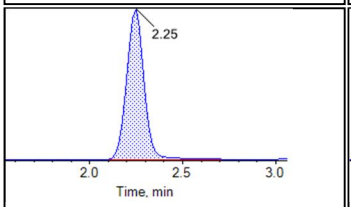
d3-MeFOSAA



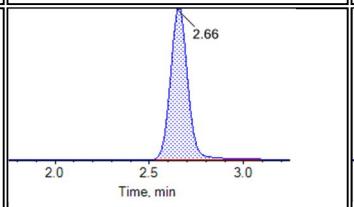
d5-EtFOSAA



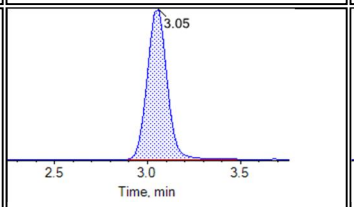
13C5-PFHxA



13C4-PFHpA



13C8-PFOA



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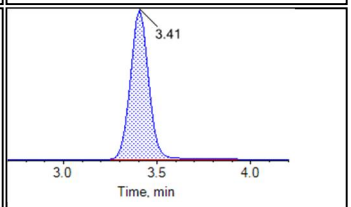
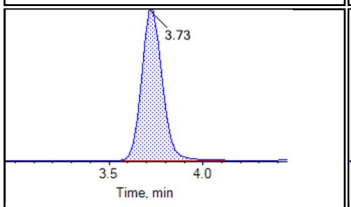
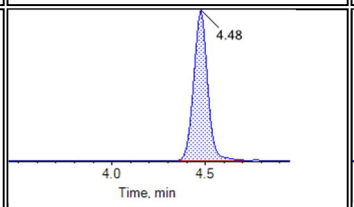


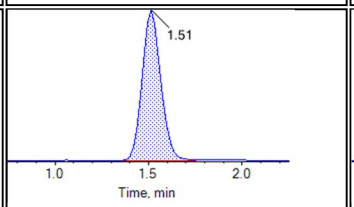
13C6-PFDA



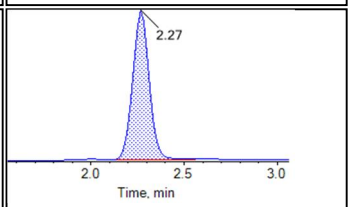
13C7-PFUnA



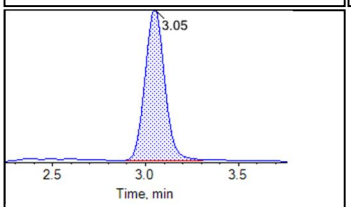
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



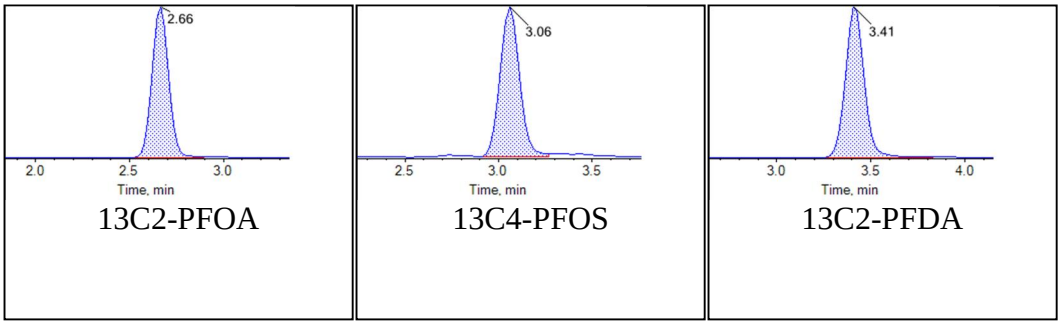
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:21 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:25 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8323-FS(0) | **Injection Vial** | 28 |
| **Sample ID** | VC-AQ-FB03-092018 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:33:27 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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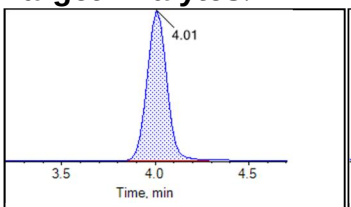

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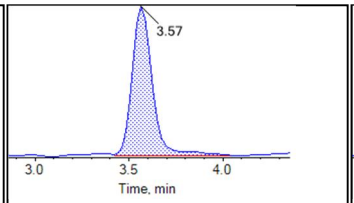

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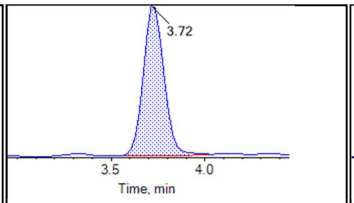

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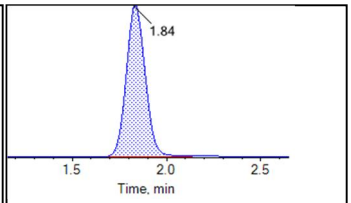
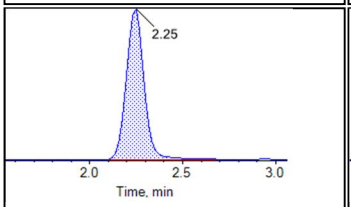
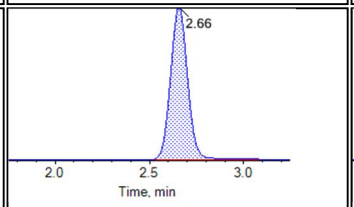


13C5-PFHxA



13C4-PFHpA



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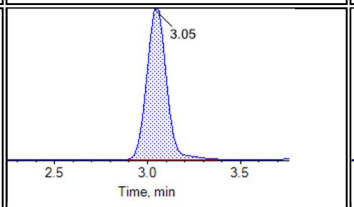
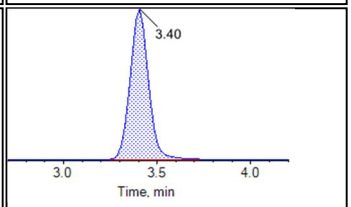
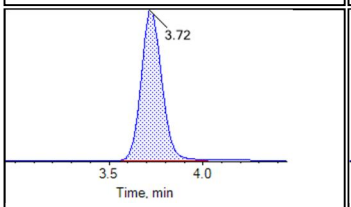


13C9-PFNA



13C6-PFDA



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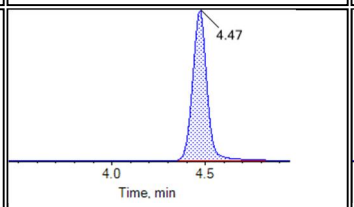

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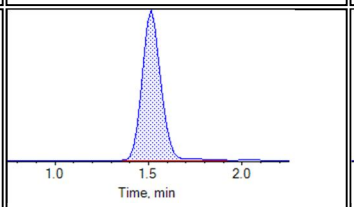

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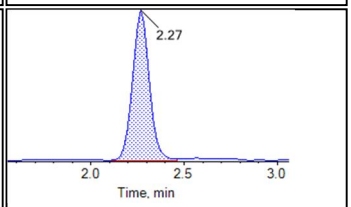
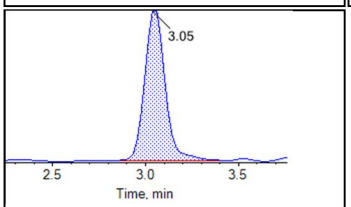


13C3-PFHxS



13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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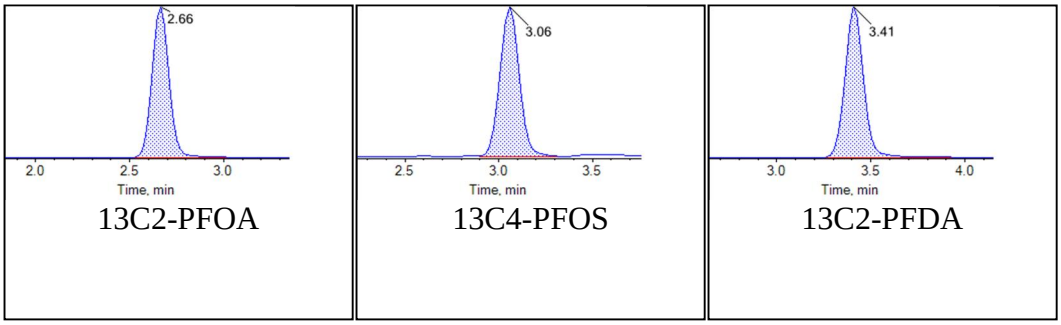
**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS(0) | **Injection Vial** | 29 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:44:19 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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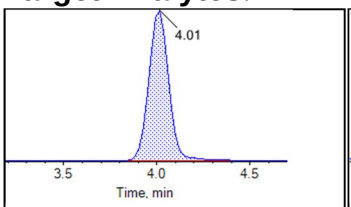

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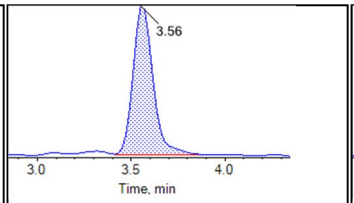
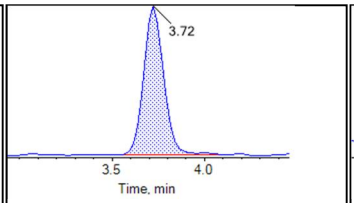


d3-MeFOSAA



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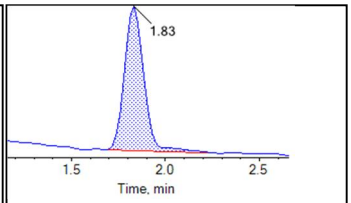

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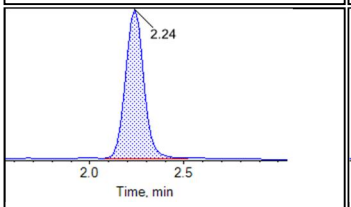

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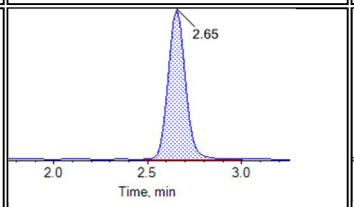

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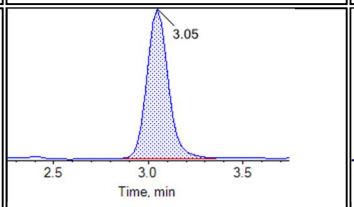

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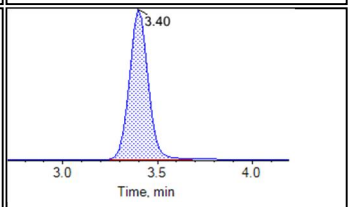

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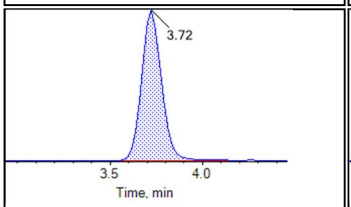
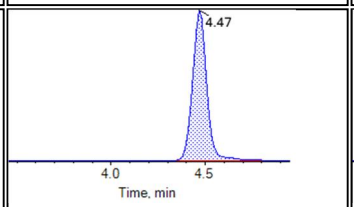


13C7-PFUnA



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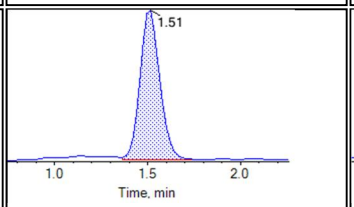
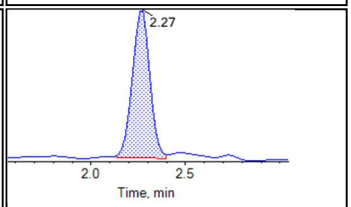
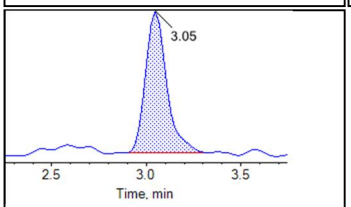


13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
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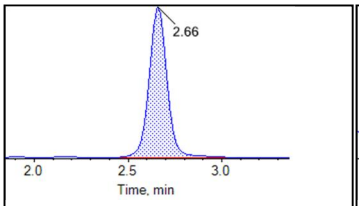
**Internal Standards:**

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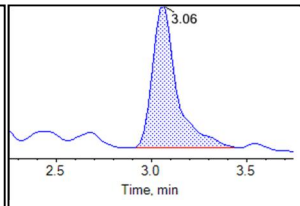
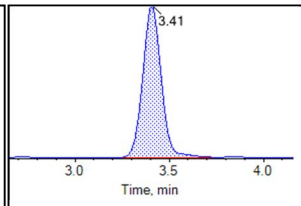



13C4-PFOS




13C2-PFDA

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:33 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(3) | **Injection Vial** | 30 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T22:55:11 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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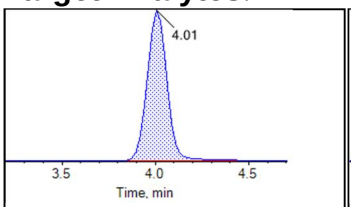

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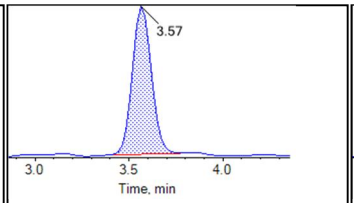
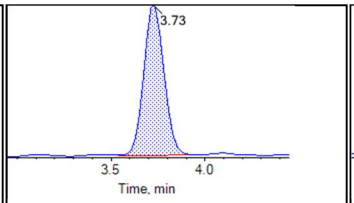


d3-MeFOSAA



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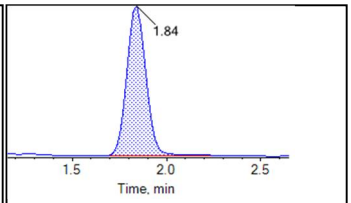

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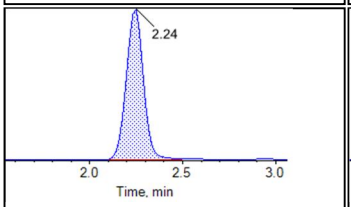

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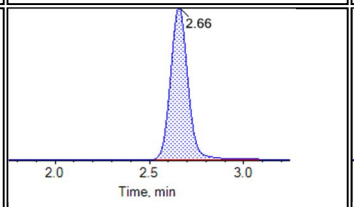

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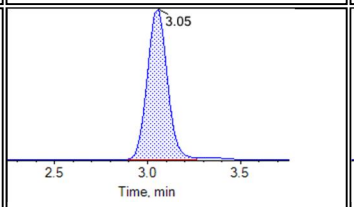
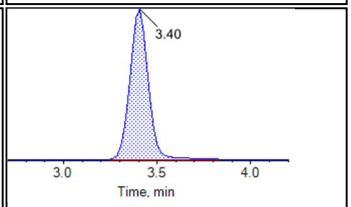
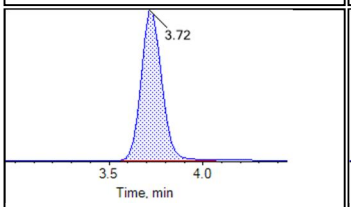


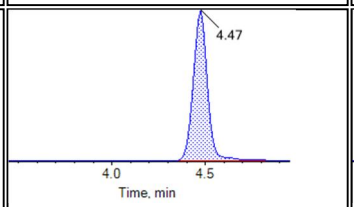
13C9-PFNA



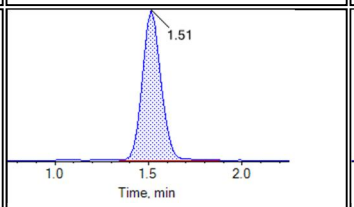
13C6-PFDA



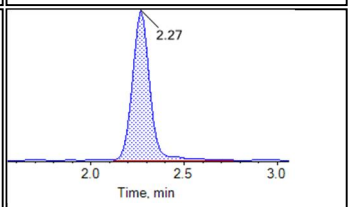
13C7-PFUnA



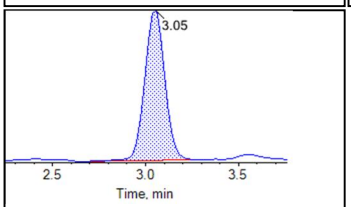
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



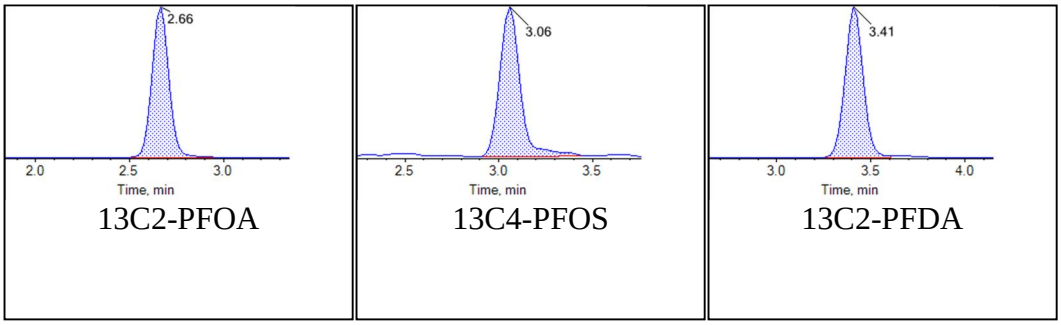
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:33 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:37 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(5) | **Injection Vial** | 31 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:06:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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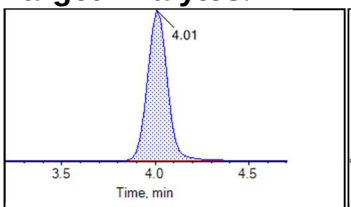

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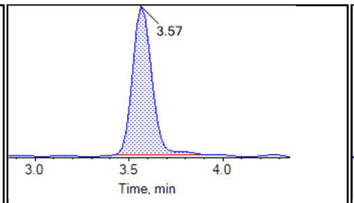
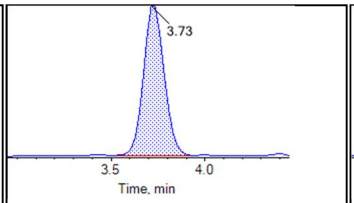


d3-MeFOSAA



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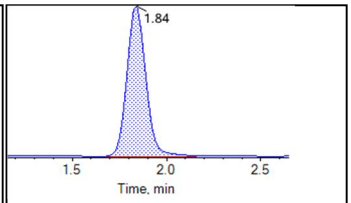

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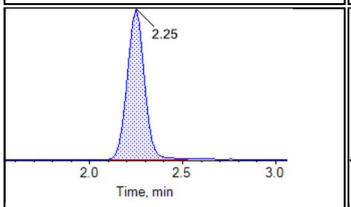

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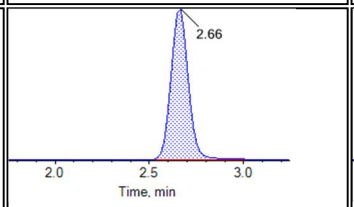

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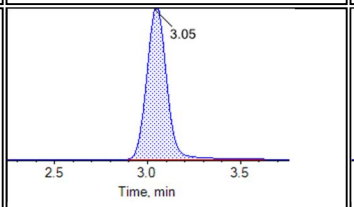

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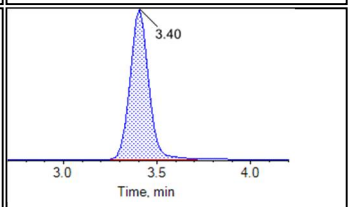

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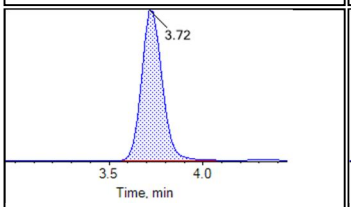
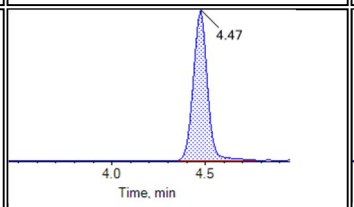
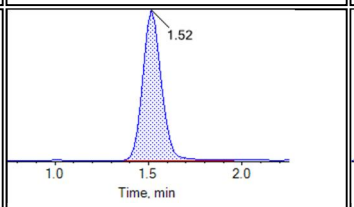


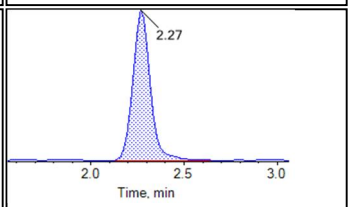
13C7-PFUnA



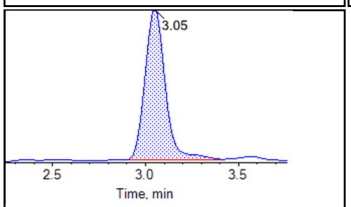
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

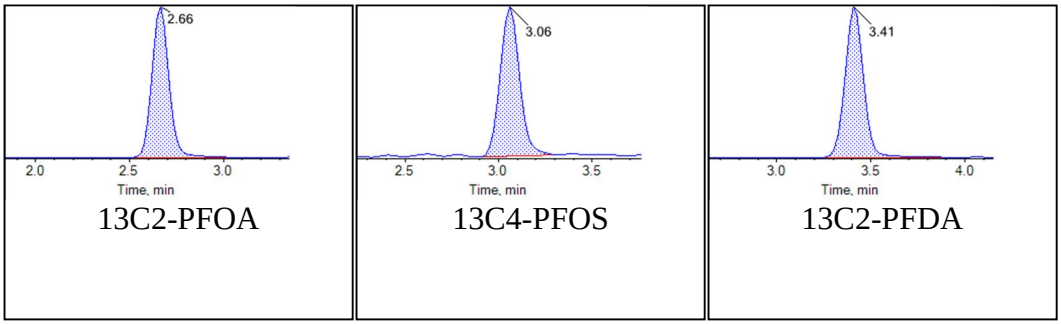


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:37 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:42 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(7) | **Injection Vial** | 32 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:16:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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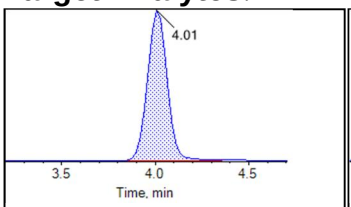
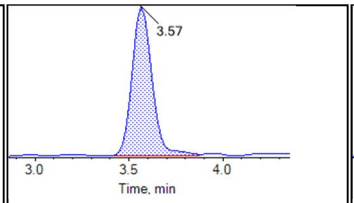
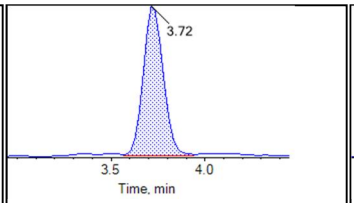


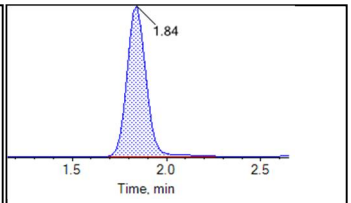
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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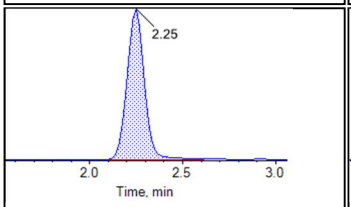
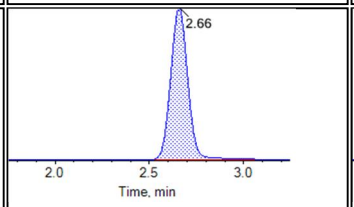


13C4-PFHpA



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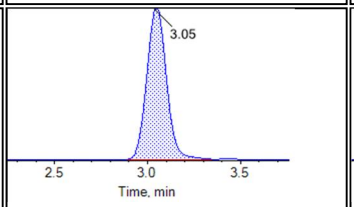
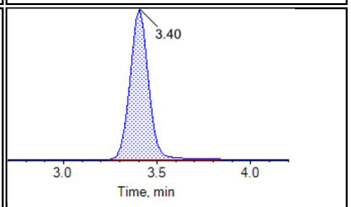
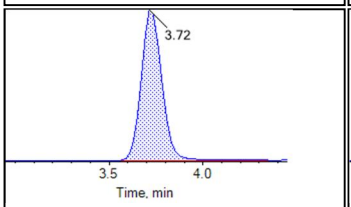


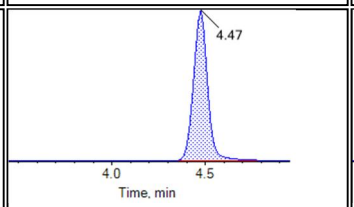
13C9-PFNA



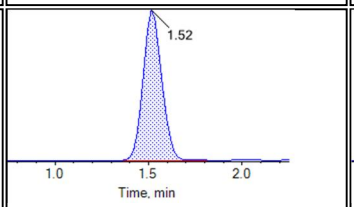
13C6-PFDA



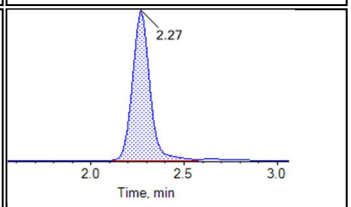
13C7-PFUnA



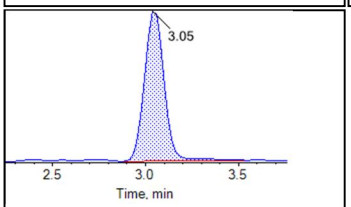
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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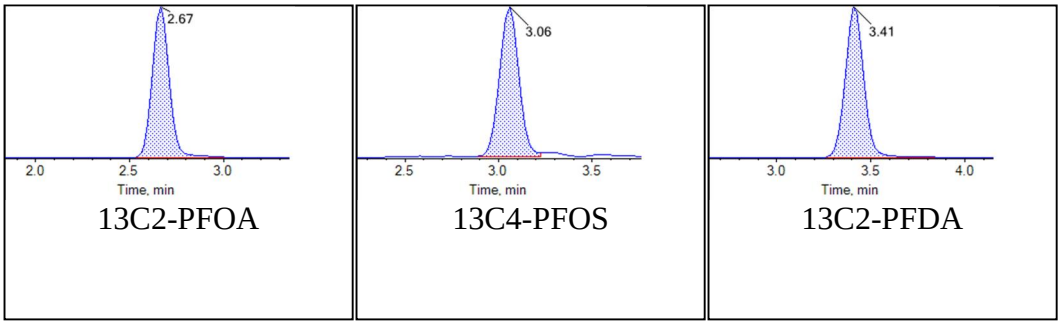
Printed: 22/10/2018 1:37:42 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:48 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8285-FS-D(9) | **Injection Vial** | 33 |
| **Sample ID** | VC-CS94-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:27:48 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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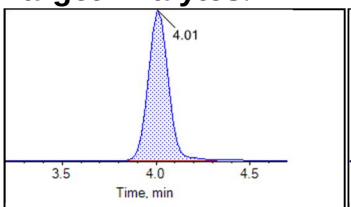
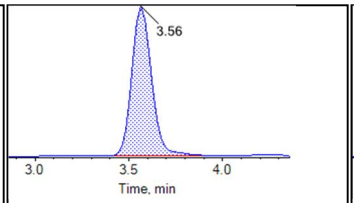
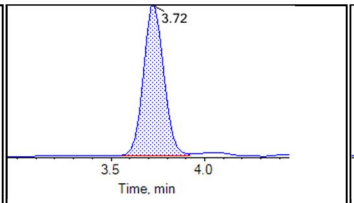


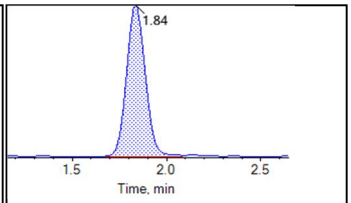
13C2-PFDoA



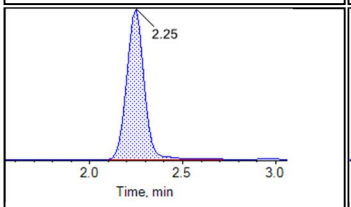
d3-MeFOSAA



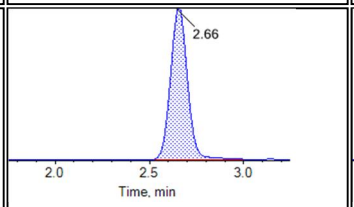
d5-EtFOSAA



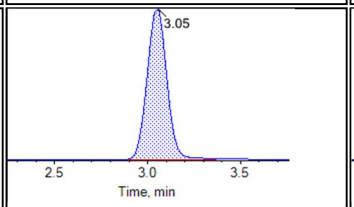
13C5-PFHxA



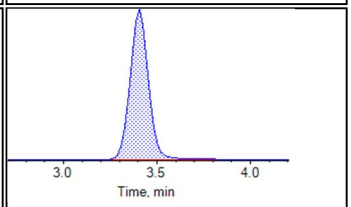
13C4-PFHpA



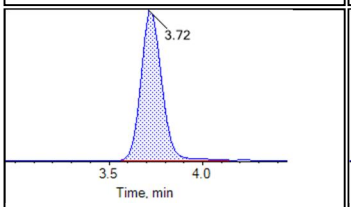
13C8-PFOA



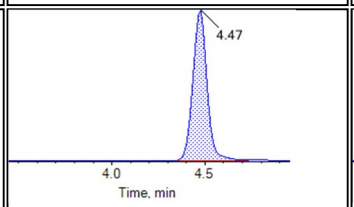
13C9-PFNA



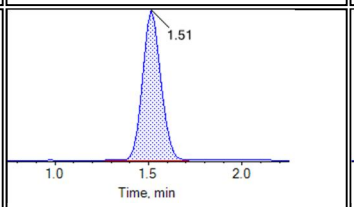
13C6-PFDA



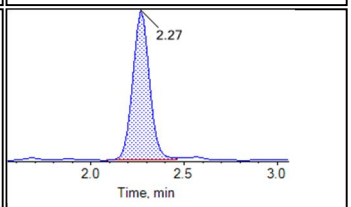
13C7-PFUnA



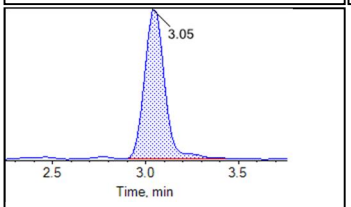
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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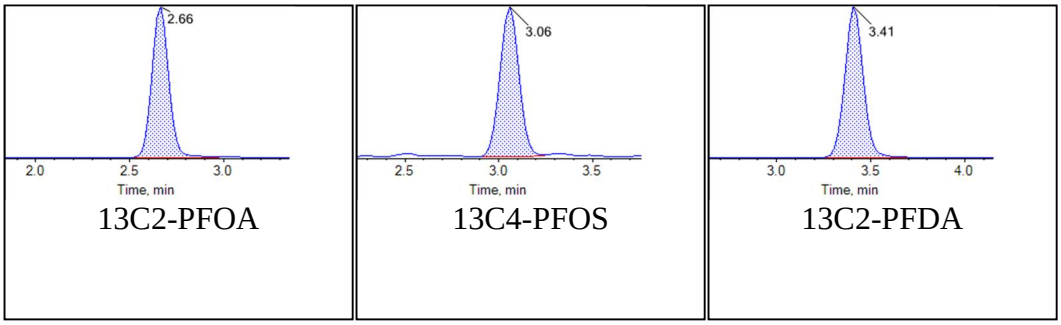
Printed: 22/10/2018 1:37:48 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:37:52 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-05T23:38:40 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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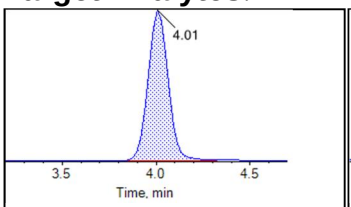
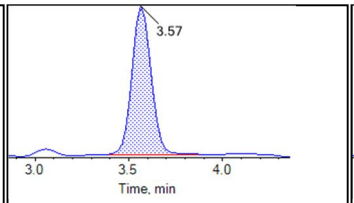
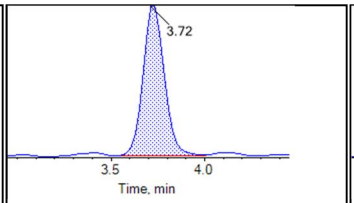


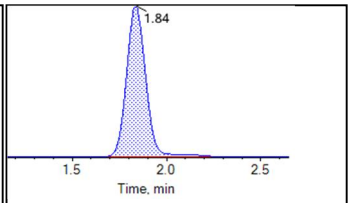
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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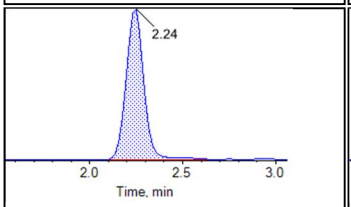
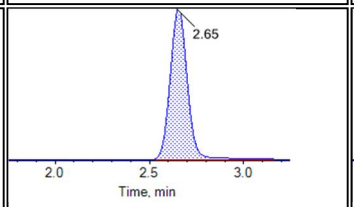
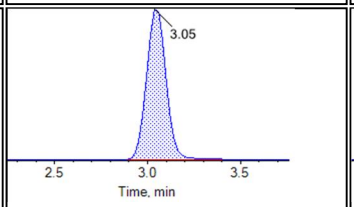


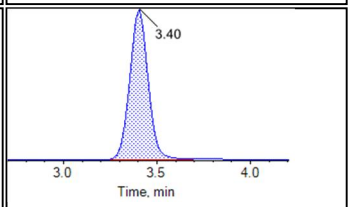
13C4-PFHpA



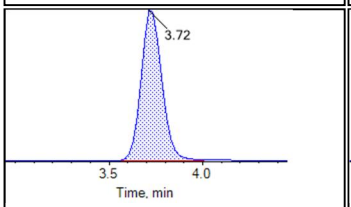
13C8-PFOA



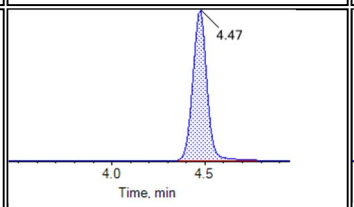
13C9-PFNA



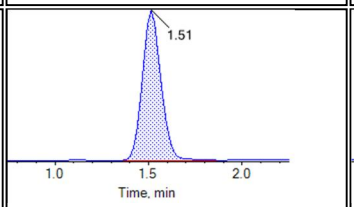
13C6-PFDA



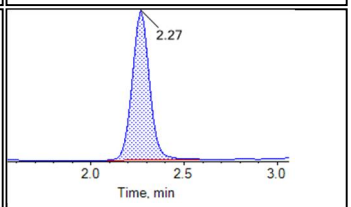
13C7-PFUnA



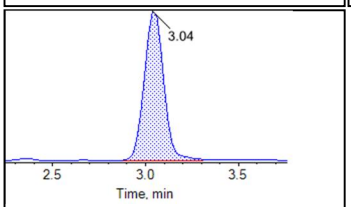
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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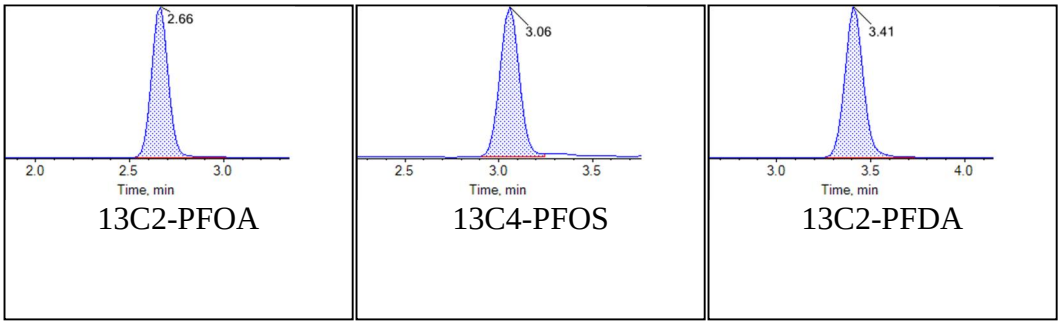
**Internal Standards:**



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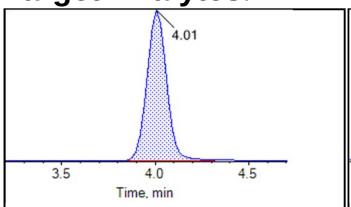
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:02 PM

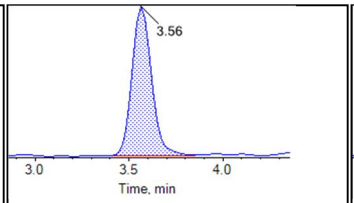
| | | | |
|---|---|---|---|
| **Sample Name** | J8309-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-SO-EB04-092118 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:00:23 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

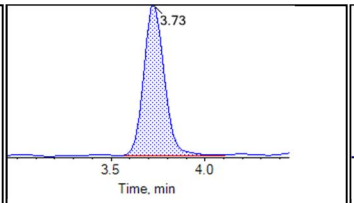
### Target Analytes:



13C2-PFDoA



d3-MeFOSAA



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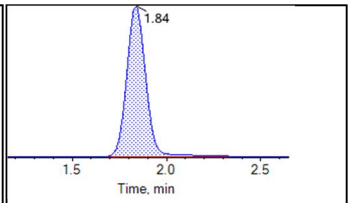

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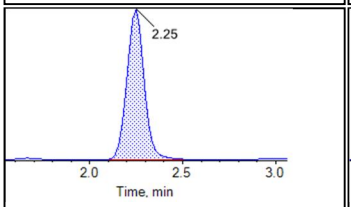

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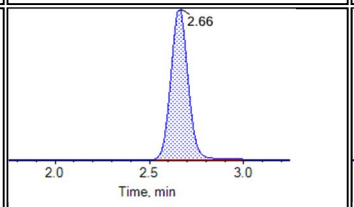
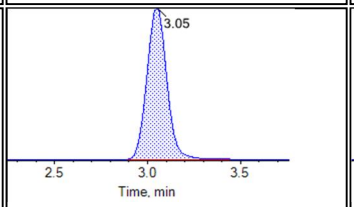
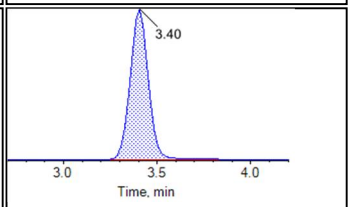


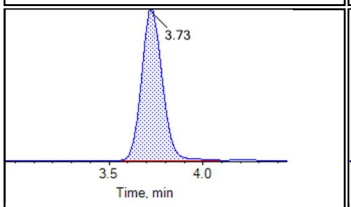
13C8-PFOA



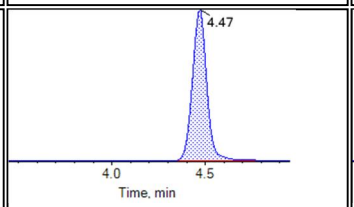
13C9-PFNA



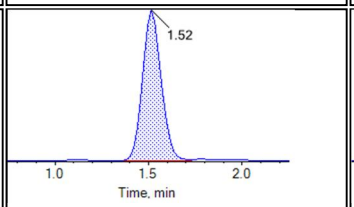
13C6-PFDA



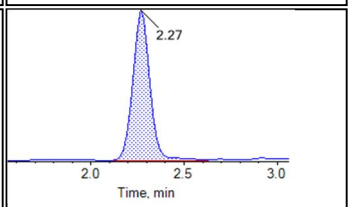
13C7-PFUnA



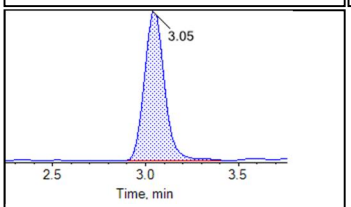
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



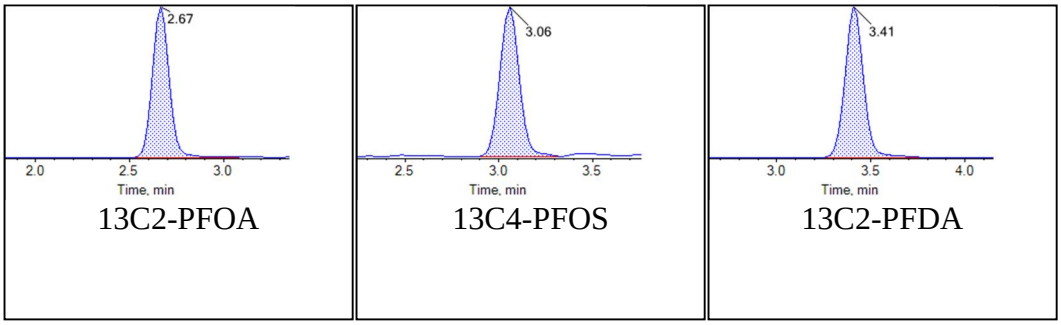
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:02 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:07 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS(0) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:11:14 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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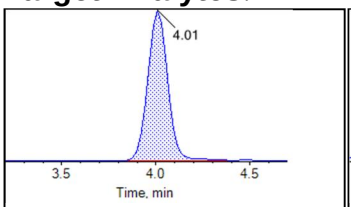

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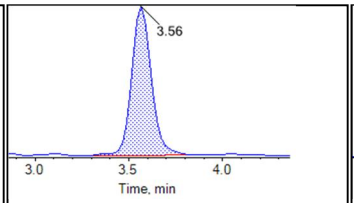
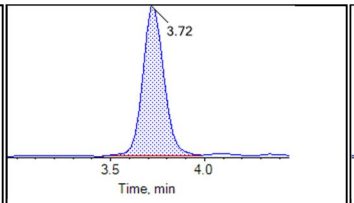


d3-MeFOSAA



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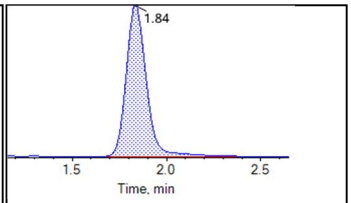

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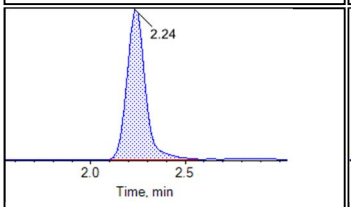
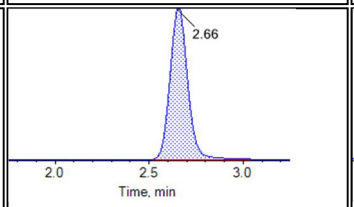
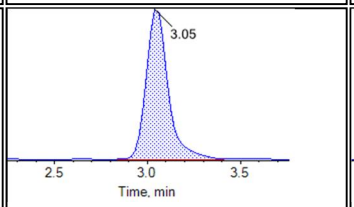


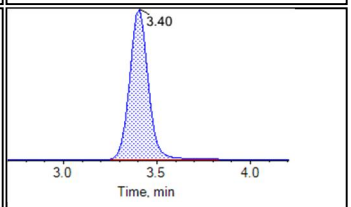
13C4-PFHpA



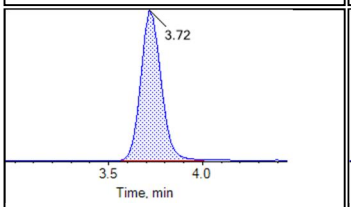
13C8-PFOA



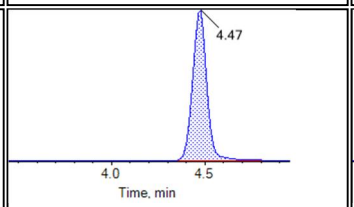
13C9-PFNA



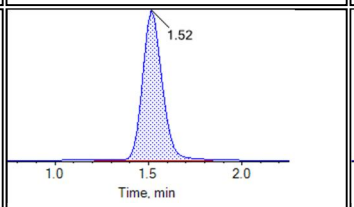
13C6-PFDA



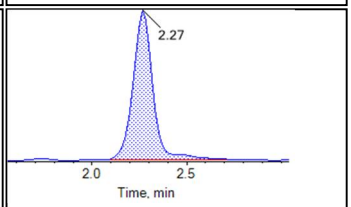
13C7-PFUnA



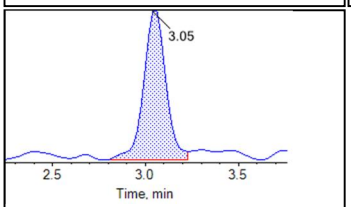
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

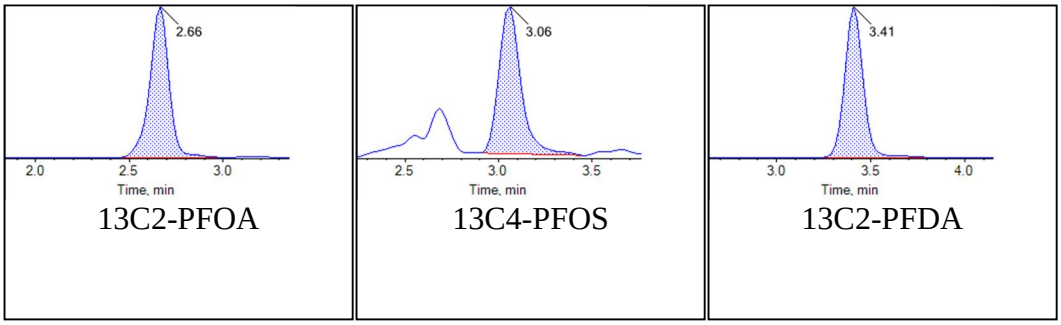


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:07 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(3) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:22:07 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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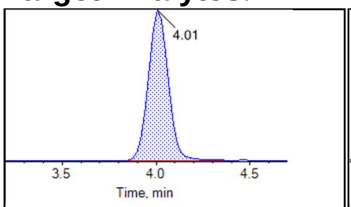

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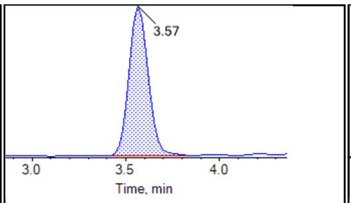
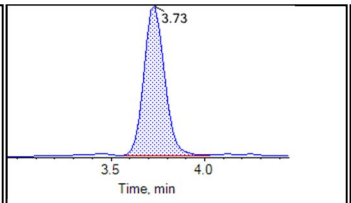
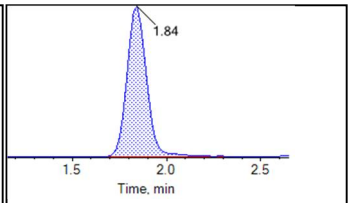


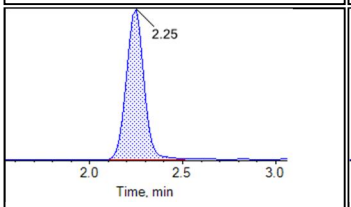
d3-MeFOSAA



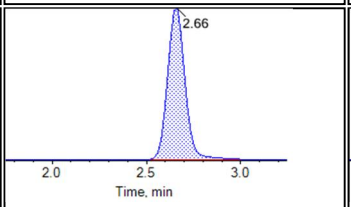
d5-EtFOSAA



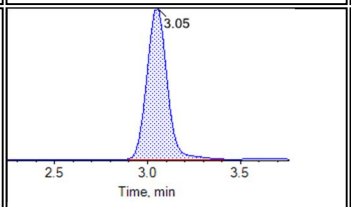
13C5-PFHxA



13C4-PFHpA



13C8-PFOA



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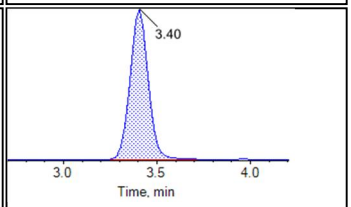
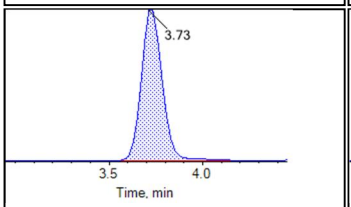
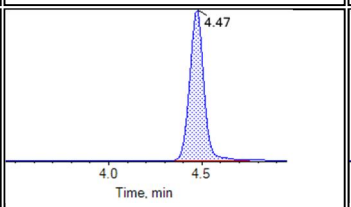


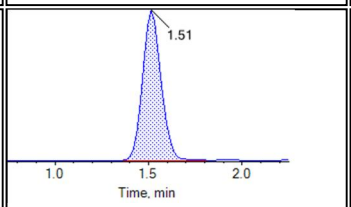
13C6-PFDA



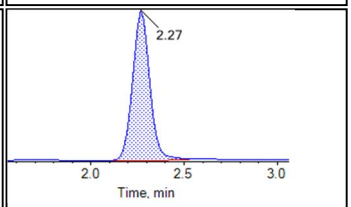
13C7-PFUnA



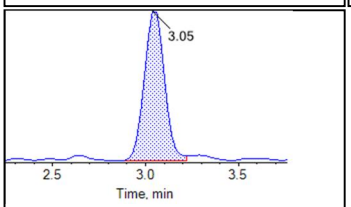
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



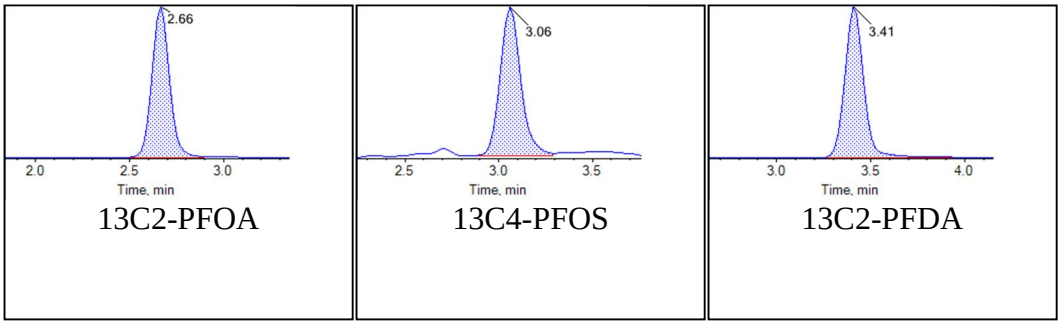
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:12 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:16 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(5) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:32:59 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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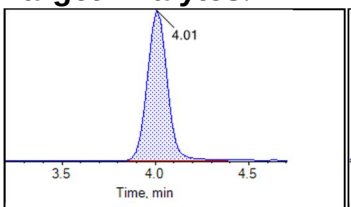
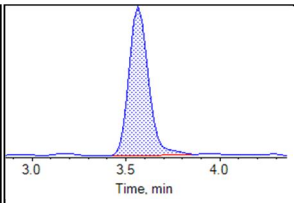
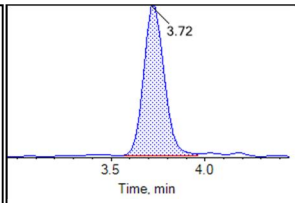


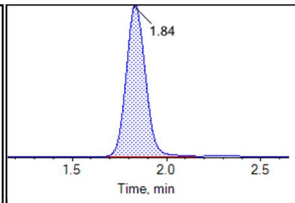
13C2-PFDoA



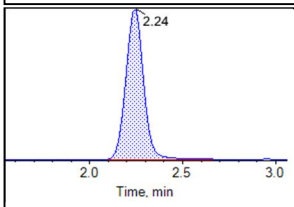
d3-MeFOSAA



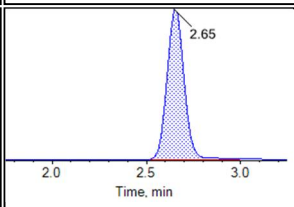
d5-EtFOSAA



13C5-PFHxA



13C4-PFHpA



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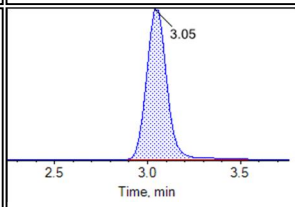

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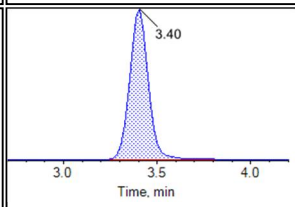
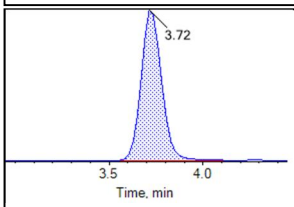
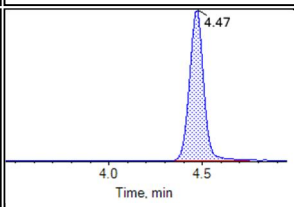


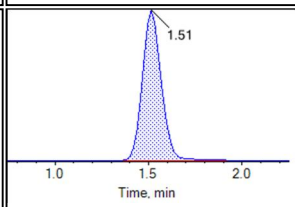
13C6-PFDA



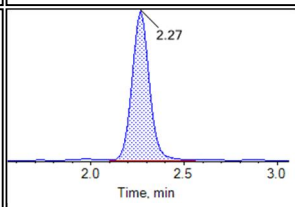
13C7-PFUnA



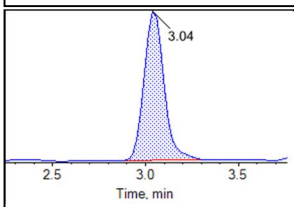
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:16 PM

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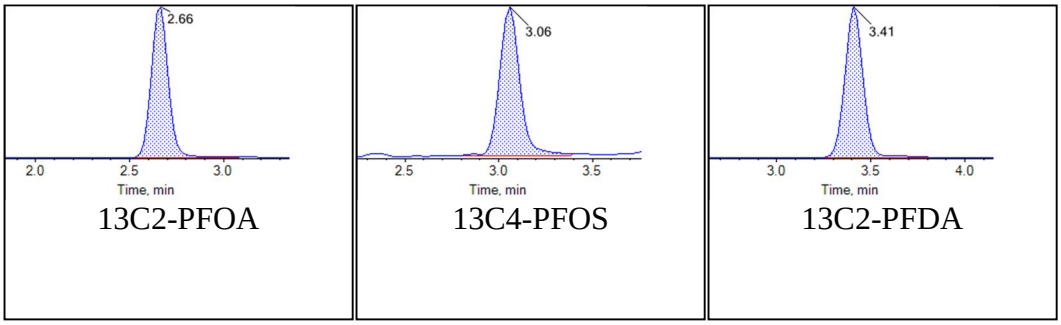

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:24 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8219-FS-D(9) | **Injection Vial** | 41 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T00:54:43 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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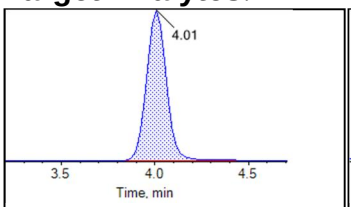

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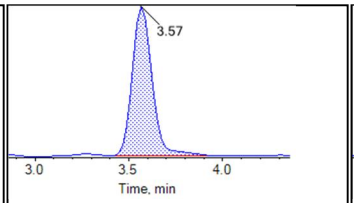

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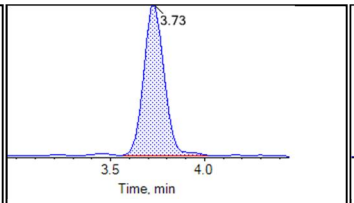
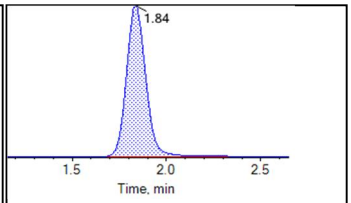


d5-EtFOSAA



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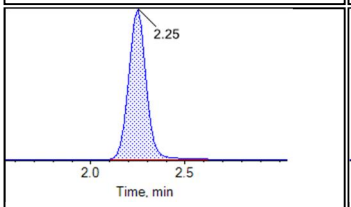
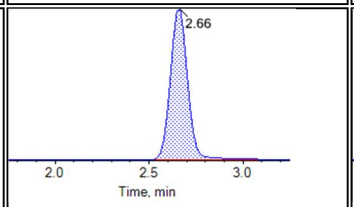
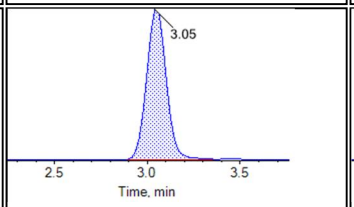


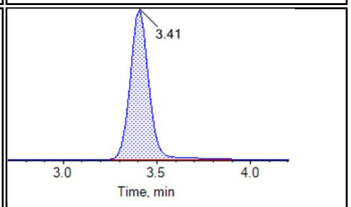
13C4-PFHpA



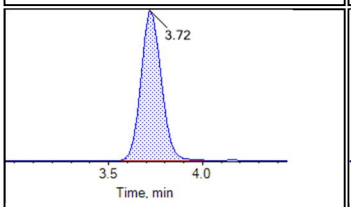
13C8-PFOA



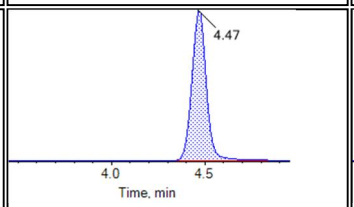
13C9-PFNA



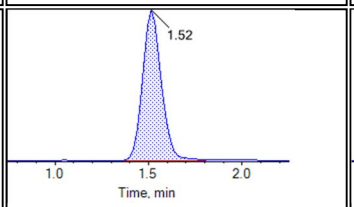
13C6-PFDA



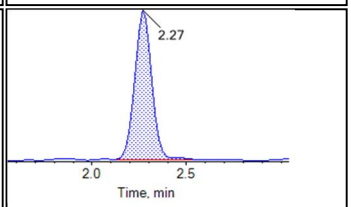
13C7-PFUnA



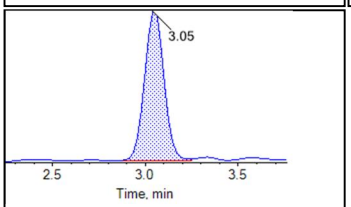
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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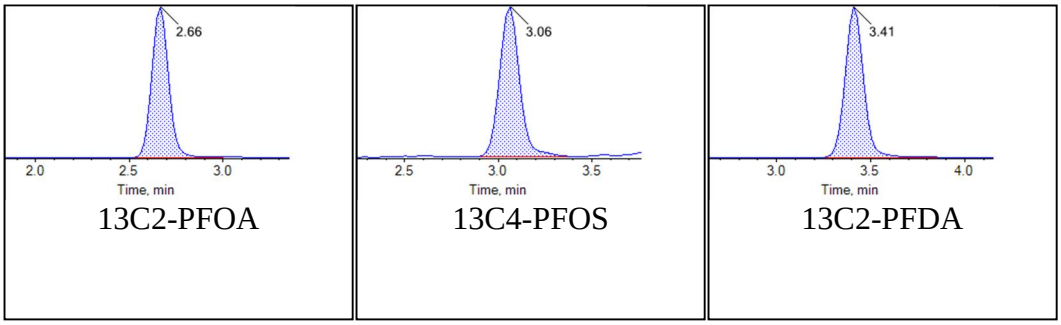
Printed: 22/10/2018 1:38:24 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS(0) | **Injection Vial** | 42 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:05:34 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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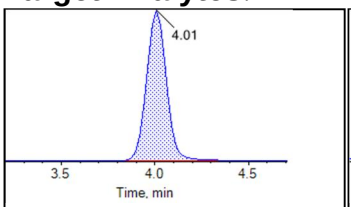

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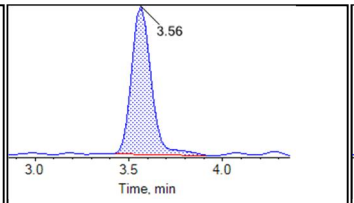
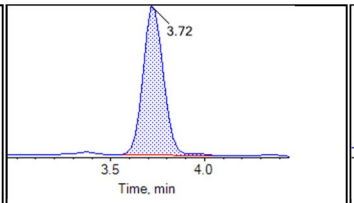


d3-MeFOSAA



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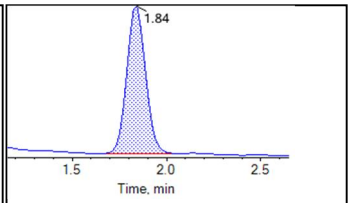

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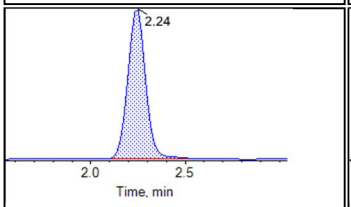
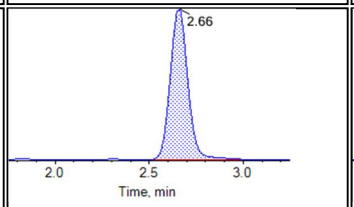
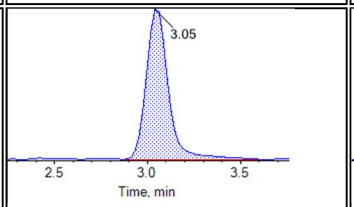


13C4-PFHpA



13C8-PFOA



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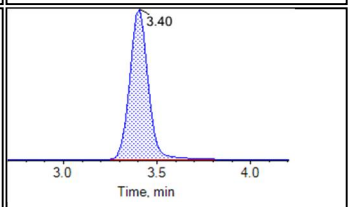
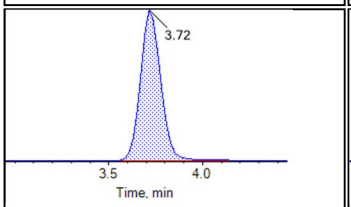
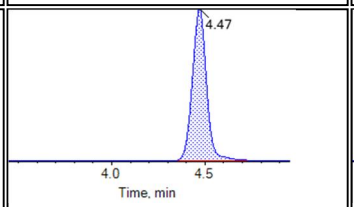


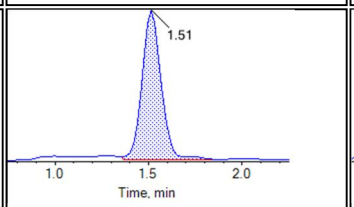
13C6-PFDA



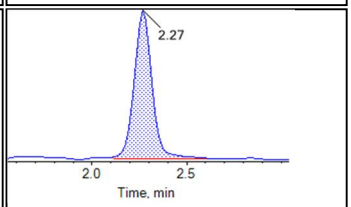
13C7-PFUnA



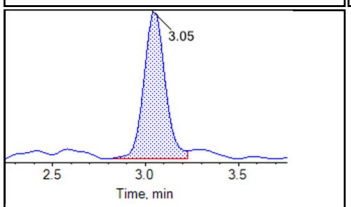
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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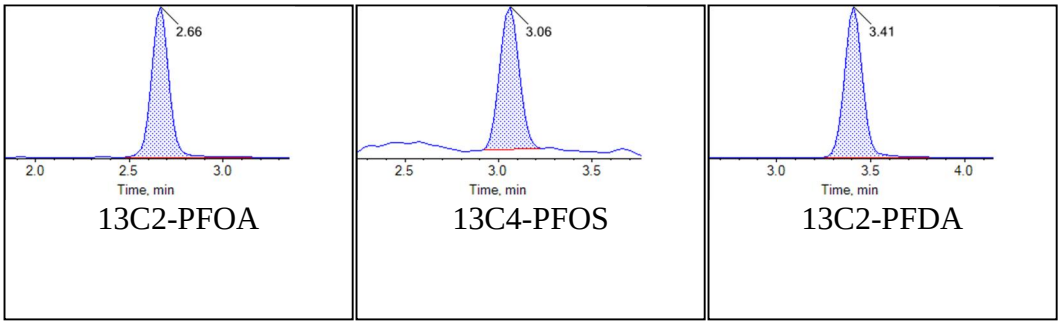

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Chromatogram Report

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Printed: 22/10/2018 1:38:33 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(3) | **Injection Vial** | 43 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:16:26 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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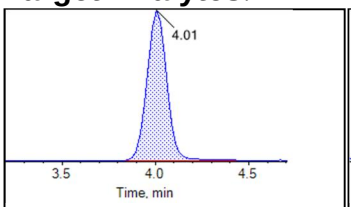
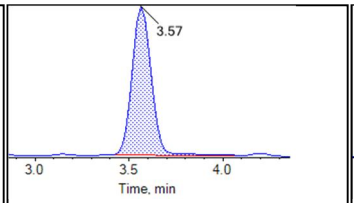
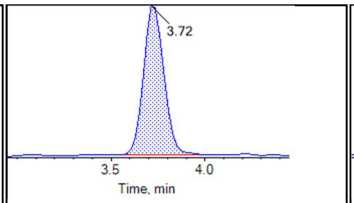


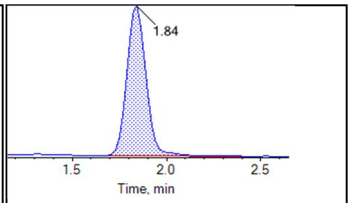
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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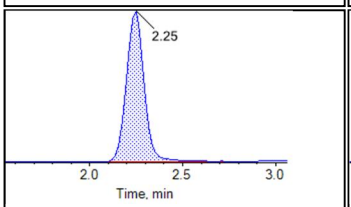

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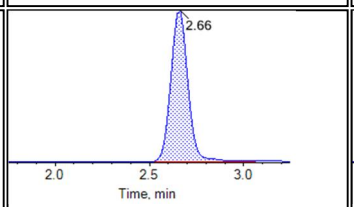

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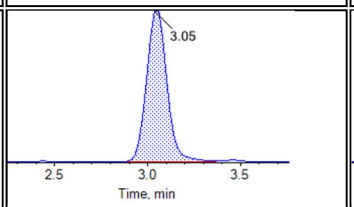

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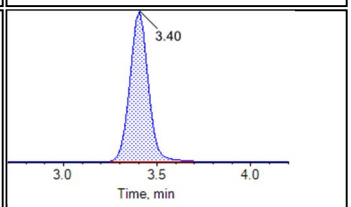
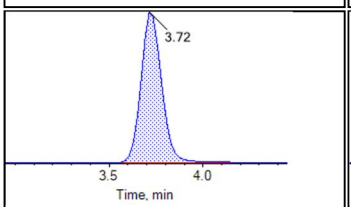
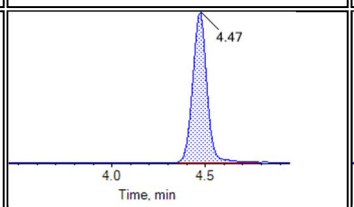


13C6-PFDA



13C7-PFUnA



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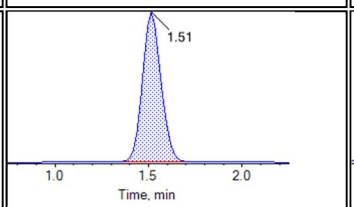
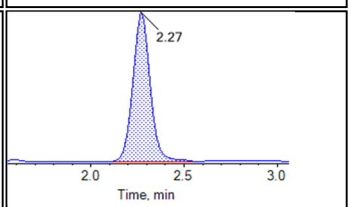
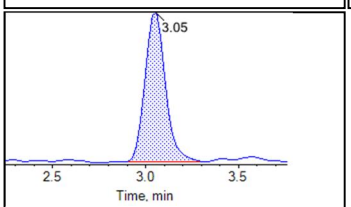


13C3-PFBS



13C3-PFHxS



13C8-PFOS

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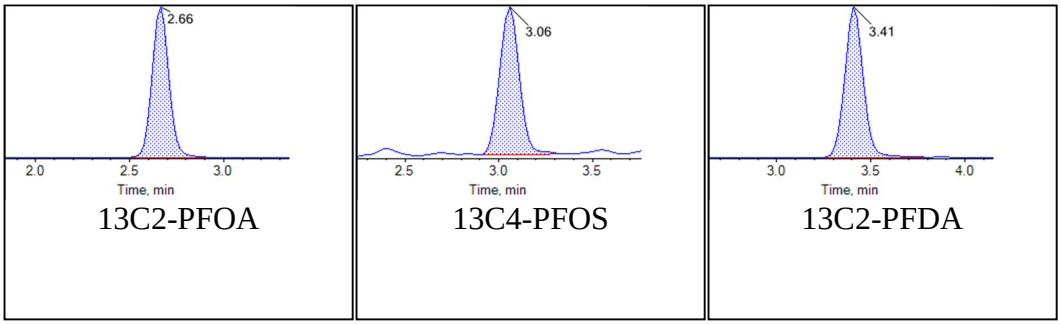
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:41 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(7) | **Injection Vial** | 45 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:38:08 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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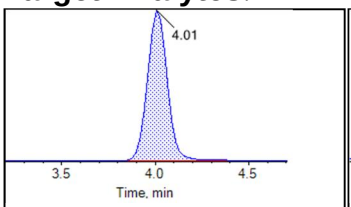
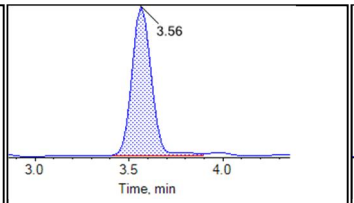
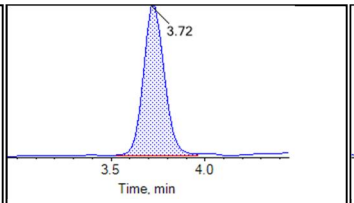


13C2-PFDoA



d3-MeFOSAA



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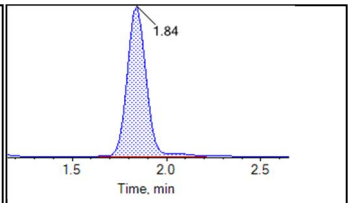

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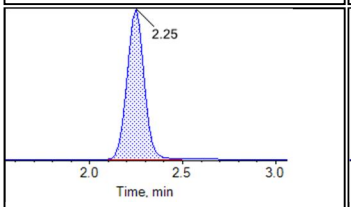

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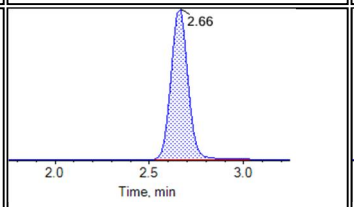

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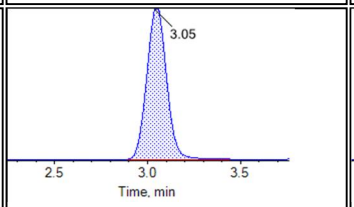
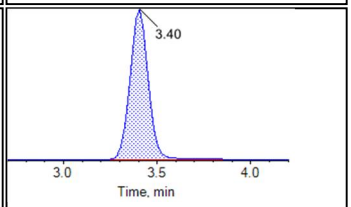
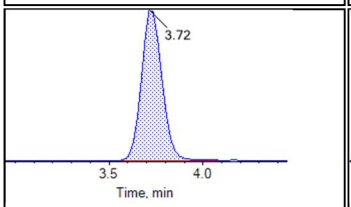


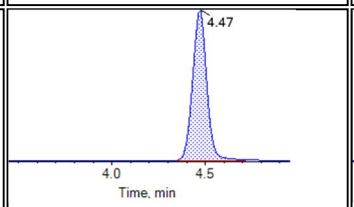
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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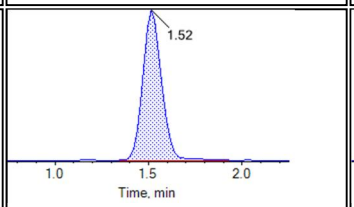
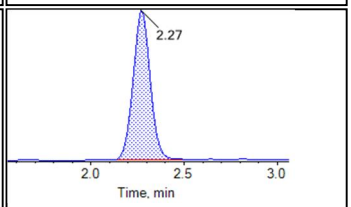
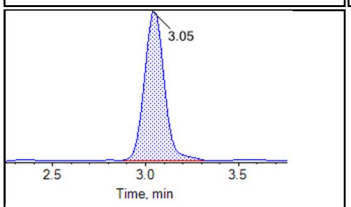


13C3-PFBS



13C3-PFHxS



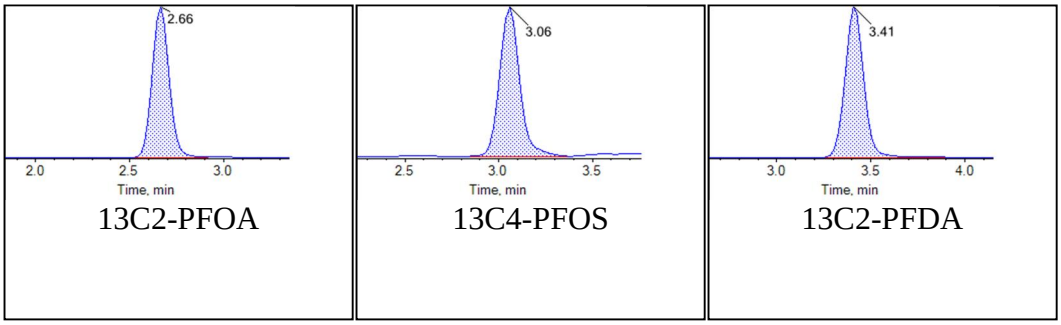
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:41 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 46 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T01:49:00 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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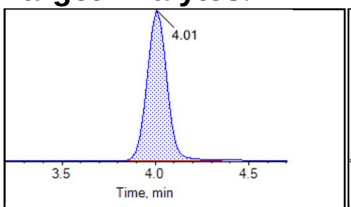

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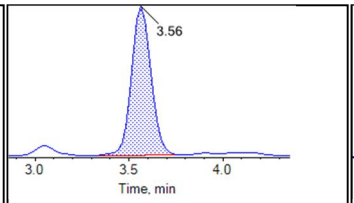
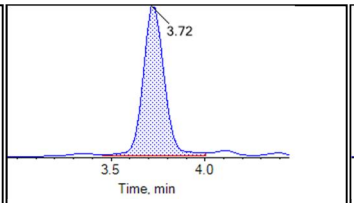


d3-MeFOSAA



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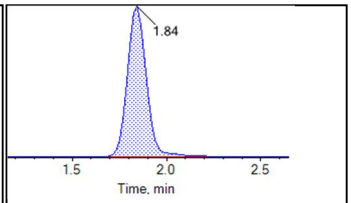

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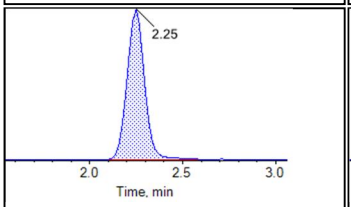

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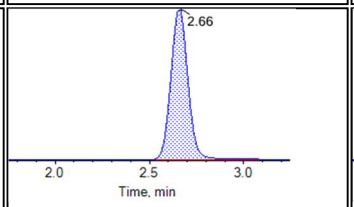
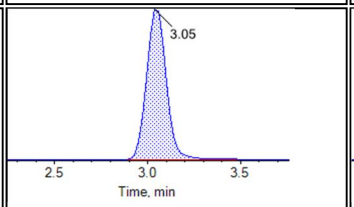
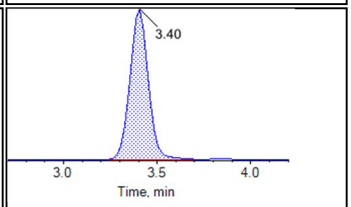


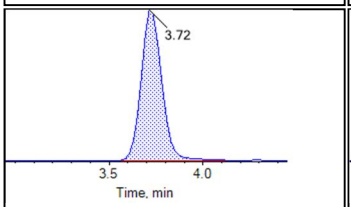
13C8-PFOA



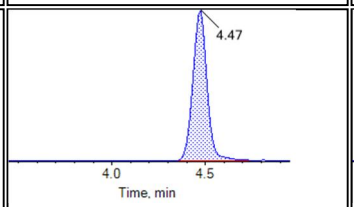
13C9-PFNA



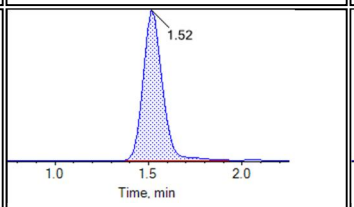
13C6-PFDA



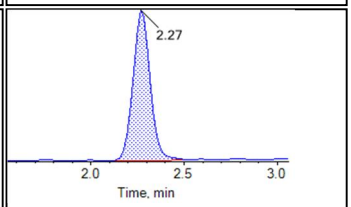
13C7-PFUnA



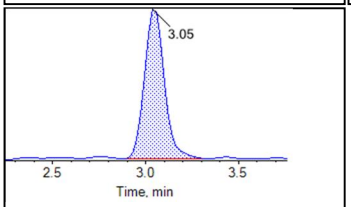
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



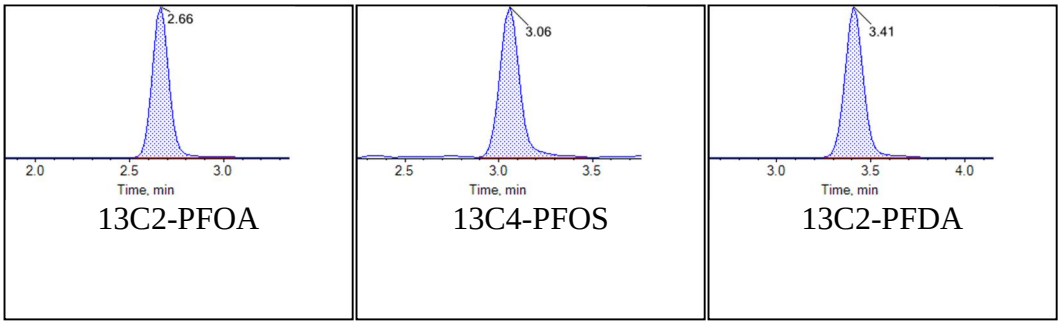
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:45 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:53 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS(0) | **Injection Vial** | 48 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:10:45 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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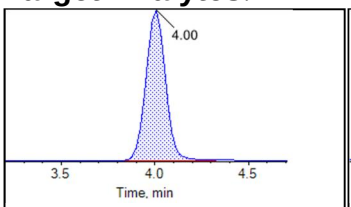
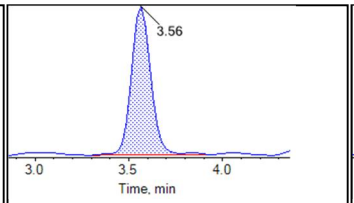
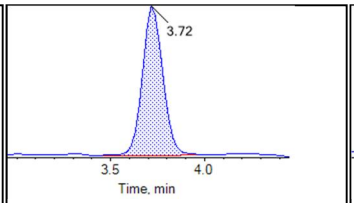


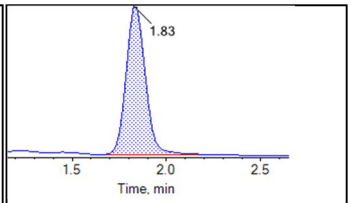
13C2-PFDoA



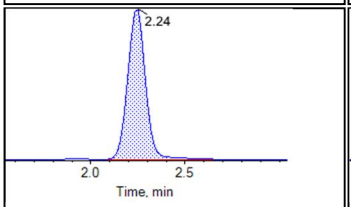
d3-MeFOSAA



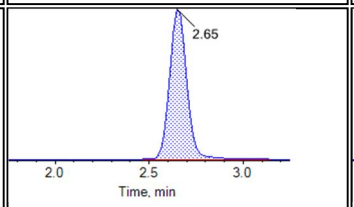
d5-EtFOSAA



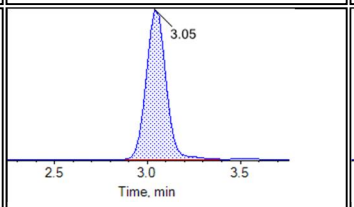
13C5-PFHxA



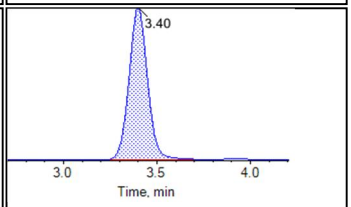
13C4-PFHpA



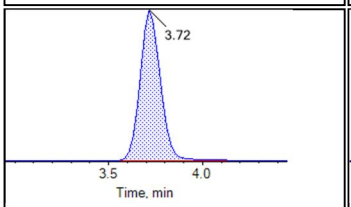
13C8-PFOA



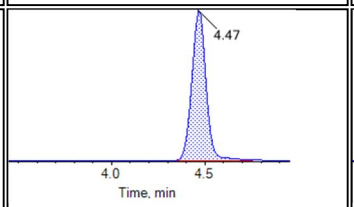
13C9-PFNA



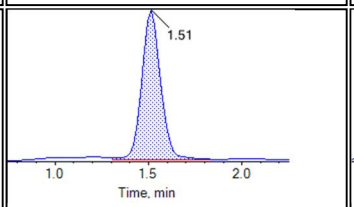
13C6-PFDA



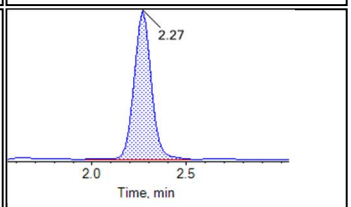
13C7-PFUnA



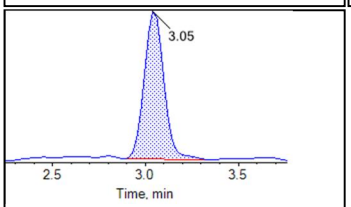
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
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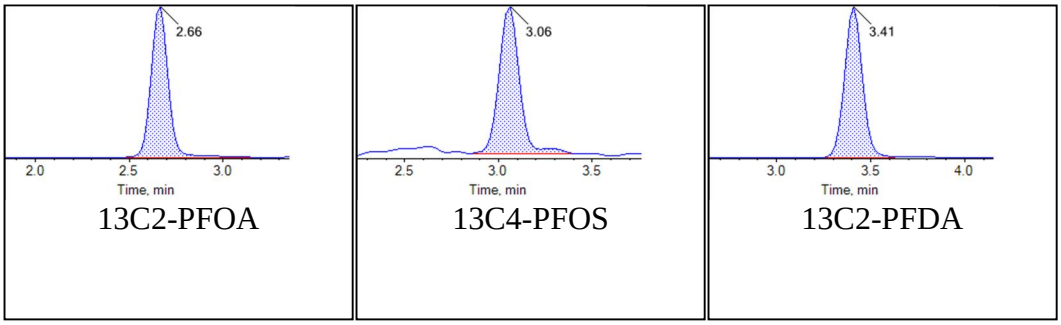
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:57 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(3) | **Injection Vial** | 49 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:21:37 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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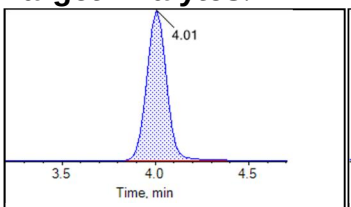

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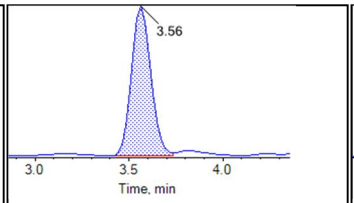
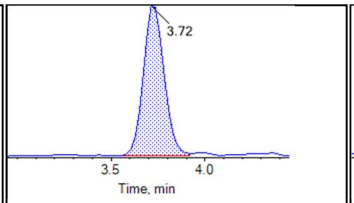
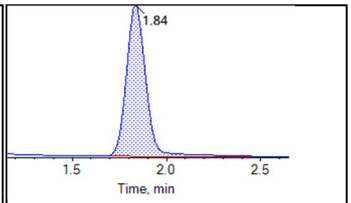


d3-MeFOSAA



d5-EtFOSAA



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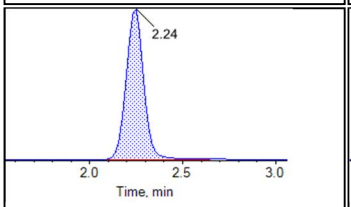

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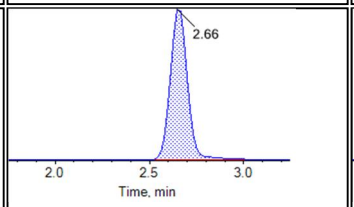
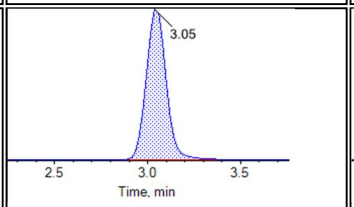
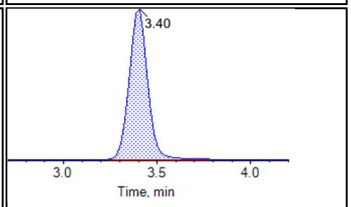


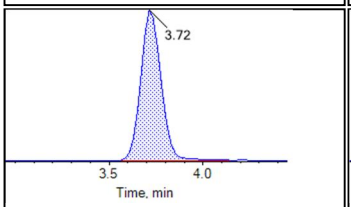
13C8-PFOA



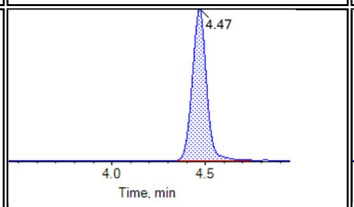
13C9-PFNA



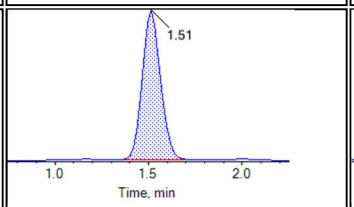
13C6-PFDA



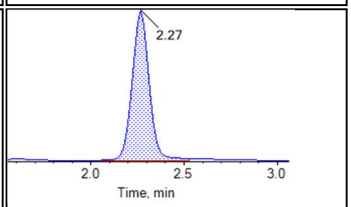
13C7-PFUnA



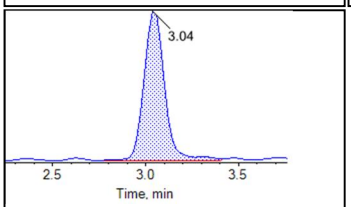
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:38:57 PM

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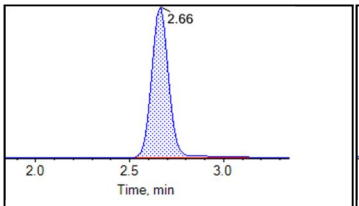
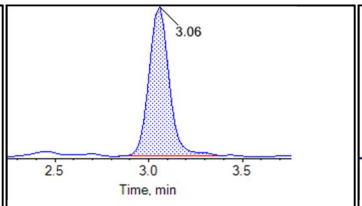
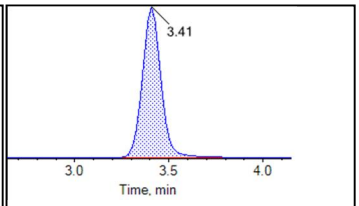



13C2-PFOA




13C4-PFOS




13C2-PFDA

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:01 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8290-FS-D(5) | **Injection Vial** | 50 |
| **Sample ID** | VC-CS94-DW05-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:32:29 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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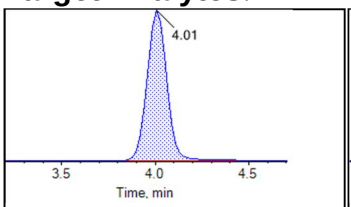
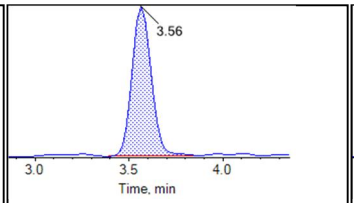
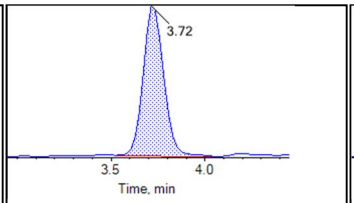


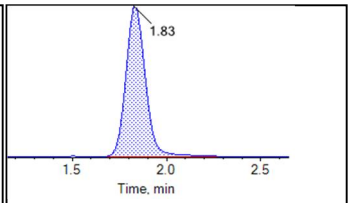
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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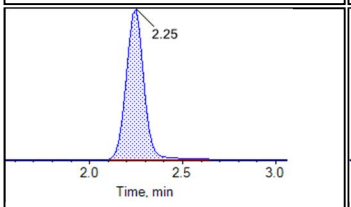

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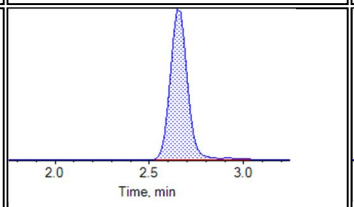
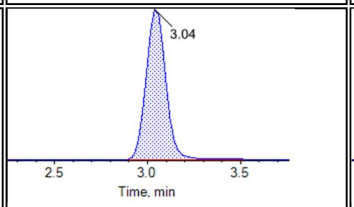
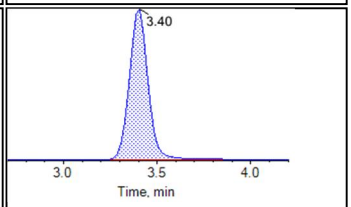


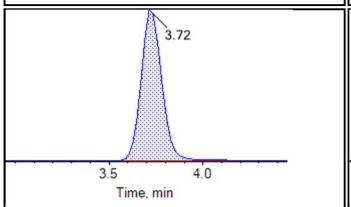
13C8-PFOA



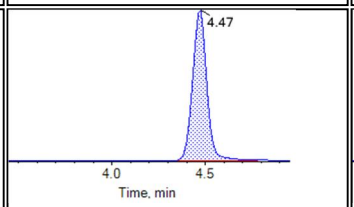
13C9-PFNA



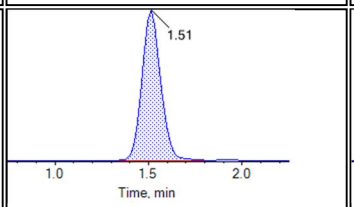
13C6-PFDA



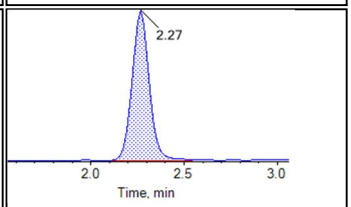
13C7-PFUnA



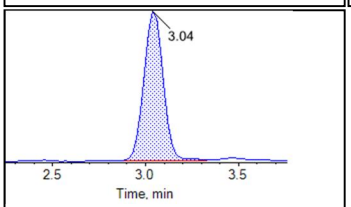
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



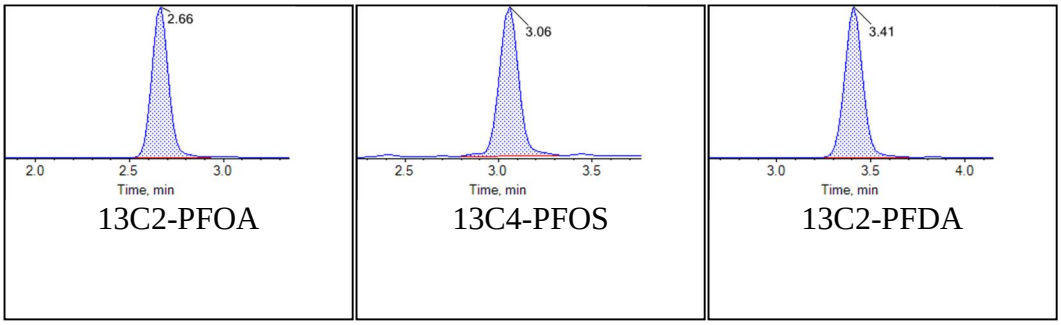
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:01 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:05 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS(0) | **Injection Vial** | 51 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:43:21 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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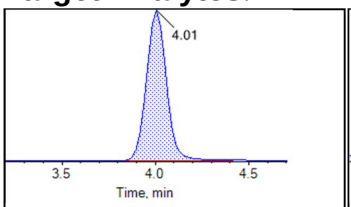
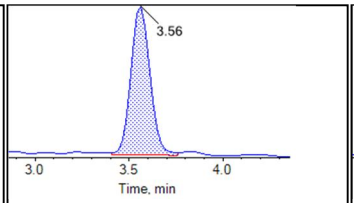
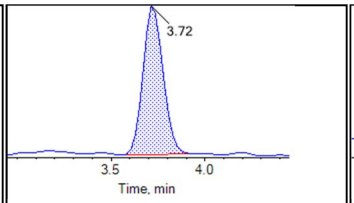


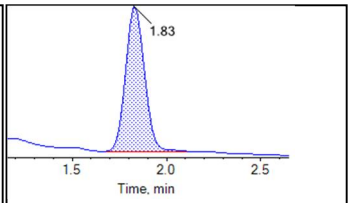
13C2-PFDoA



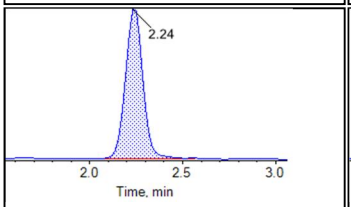
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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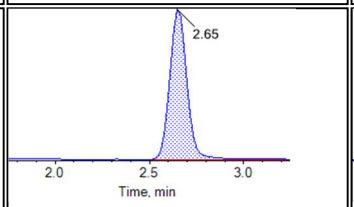
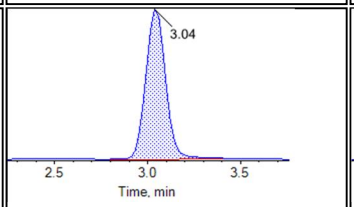
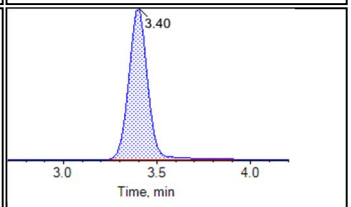


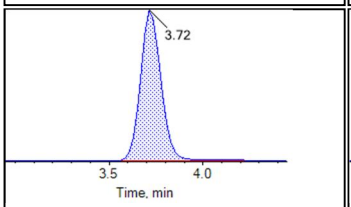
13C8-PFOA



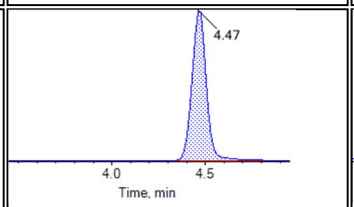
13C9-PFNA



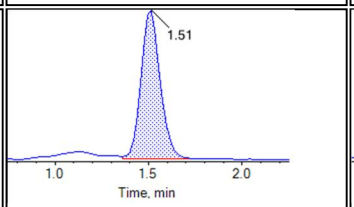
13C6-PFDA



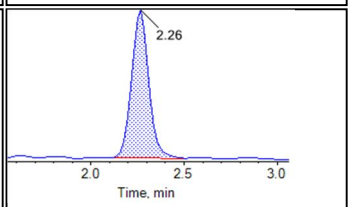
13C7-PFUnA



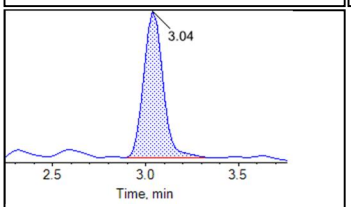
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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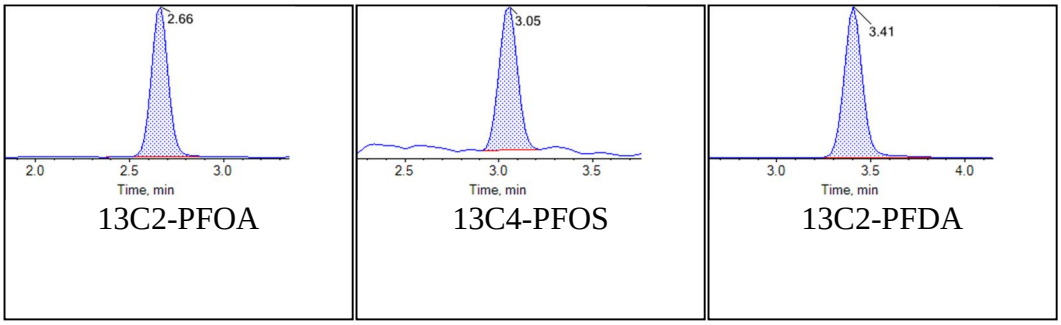
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:05 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:09 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8288-FS-D(3) | **Injection Vial** | 52 |
| **Sample ID** | VC-CS94-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T02:54:13 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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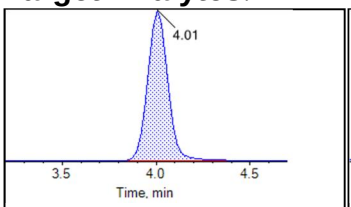
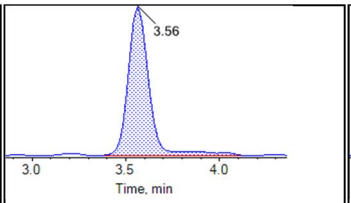
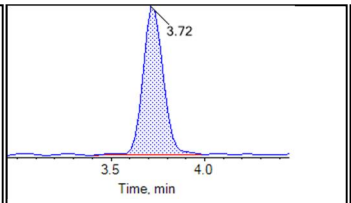


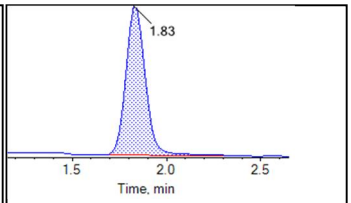
13C2-PFDoA



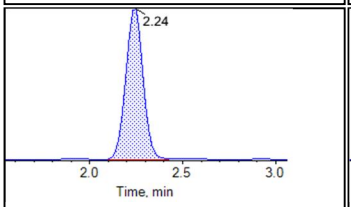
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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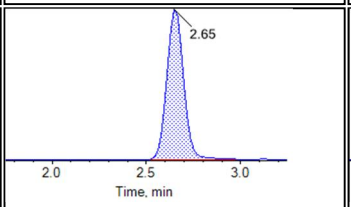
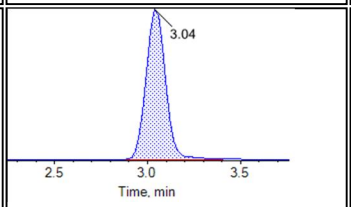


13C8-PFOA



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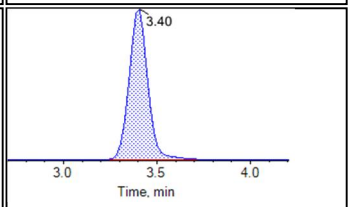
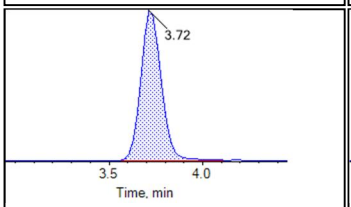
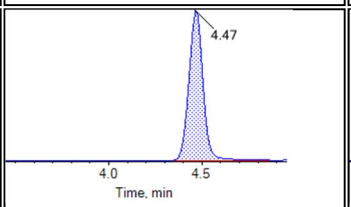


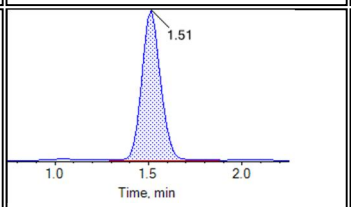
13C6-PFDA



13C7-PFUnA



13C2-PFTeDA



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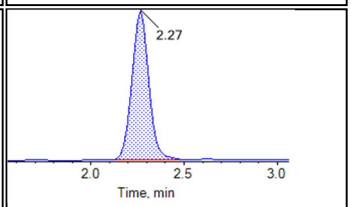
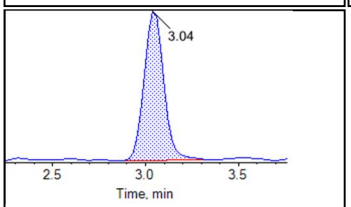


13C3-PFHxS



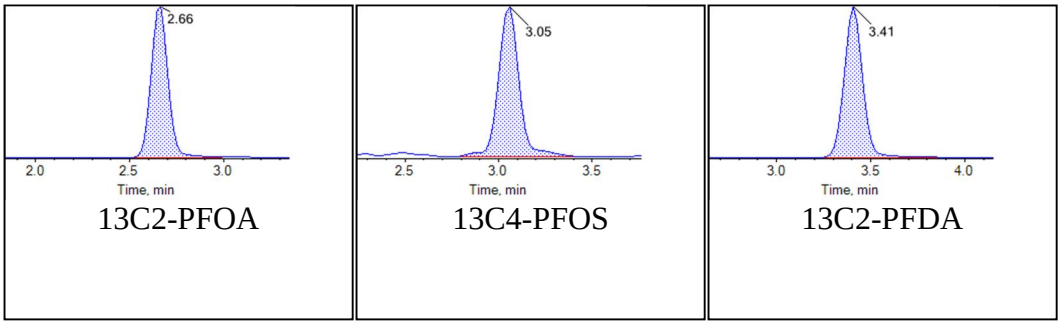
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:09 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS(0) | **Injection Vial** | 53 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:05:04 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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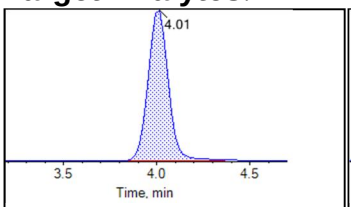

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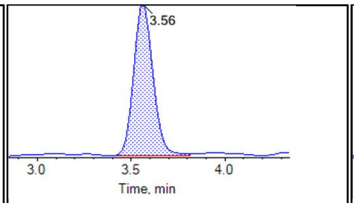

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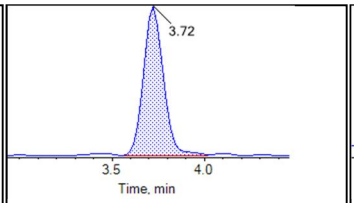

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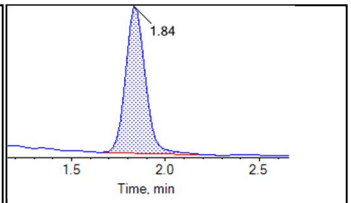

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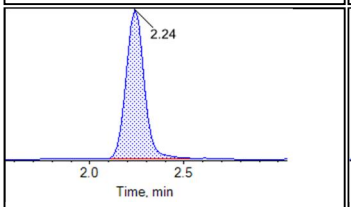

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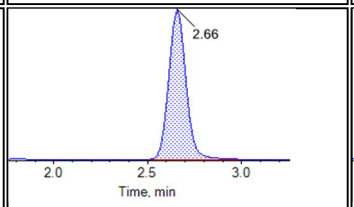

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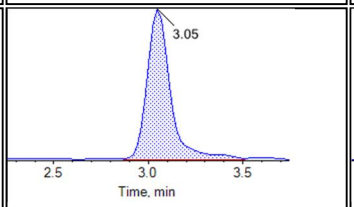

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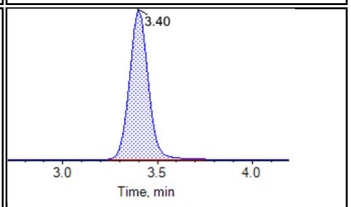
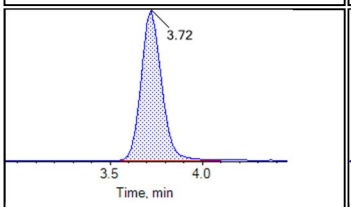


13C6-PFDA



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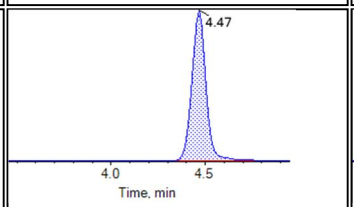

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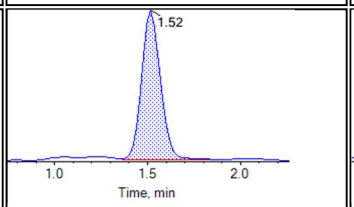
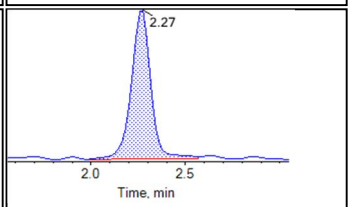
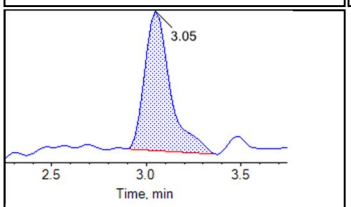


13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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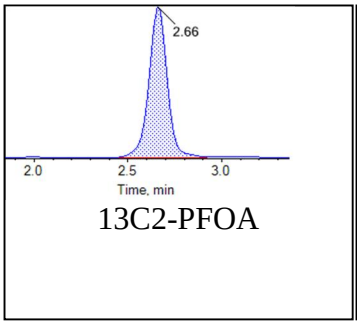
**Internal Standards:**

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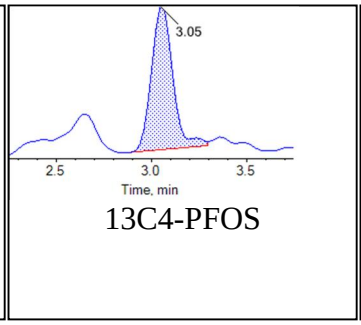


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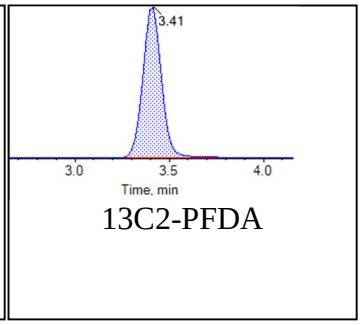


13C2-PFDA

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(3) | **Injection Vial** | 54 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:15:56 | **Data File** | 18_0600_18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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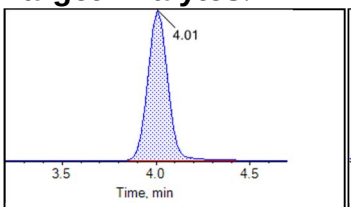

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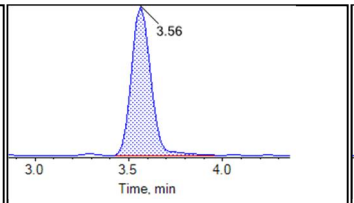
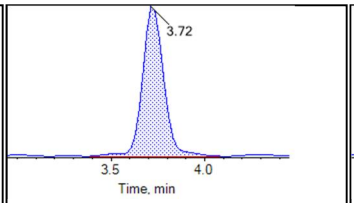


d3-MeFOSAA



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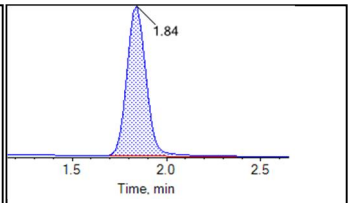

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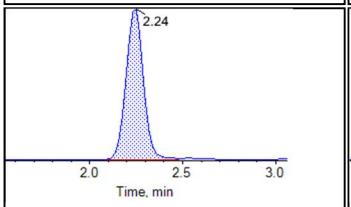

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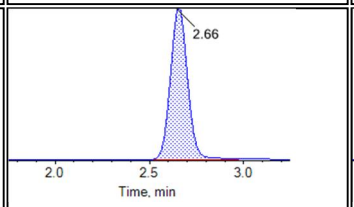

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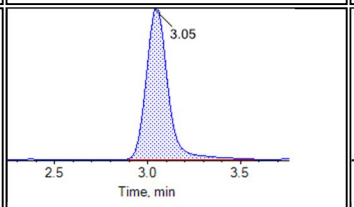

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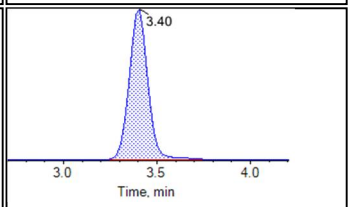

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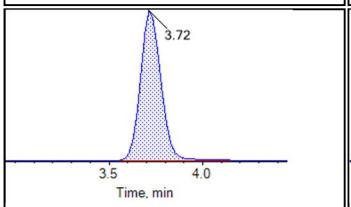

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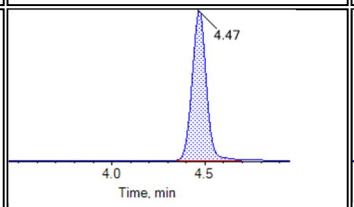
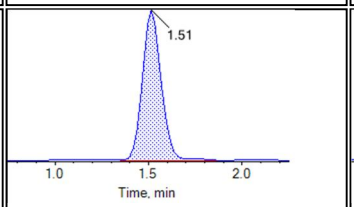


13C2-PFTeDA



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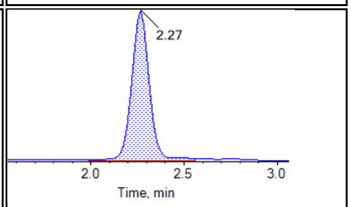
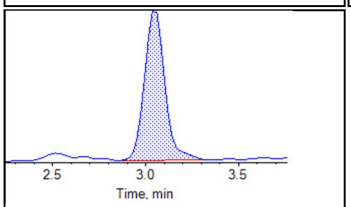


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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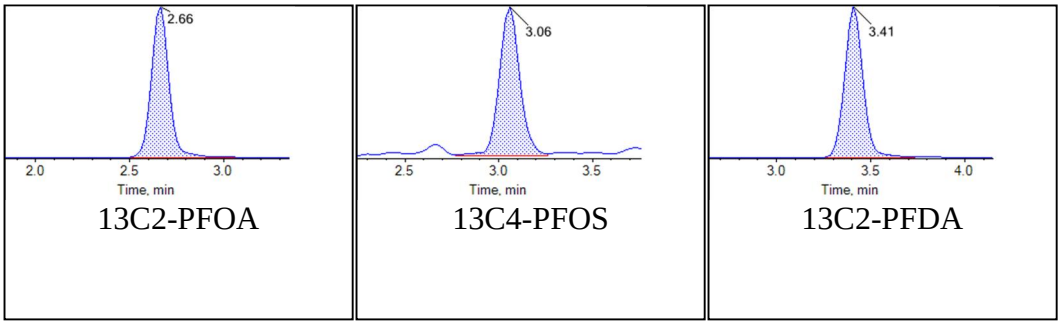
Printed: 22/10/2018 1:39:17 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:21 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(5) | **Injection Vial** | 1 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:26:49 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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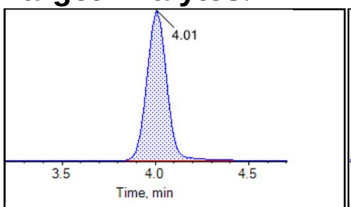
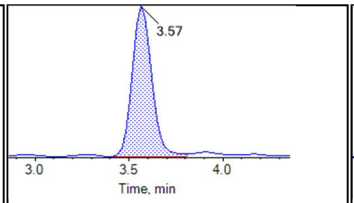


13C2-PFDoA



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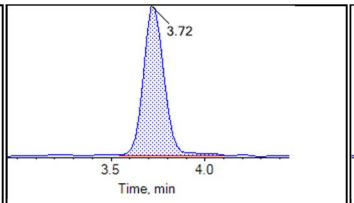

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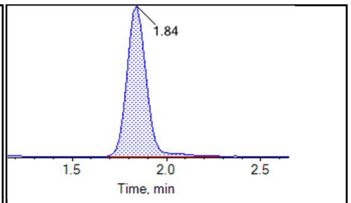

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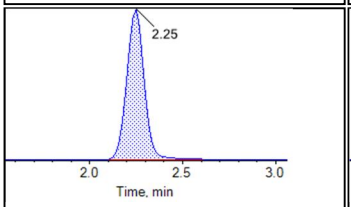

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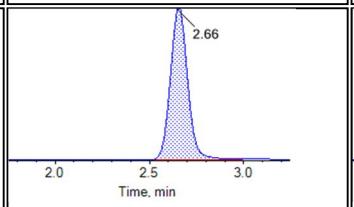

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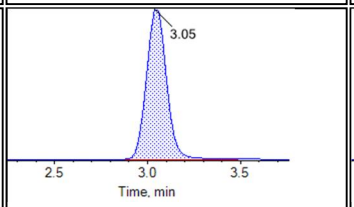

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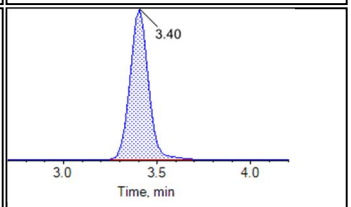
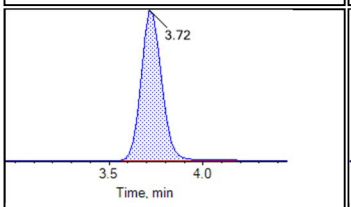
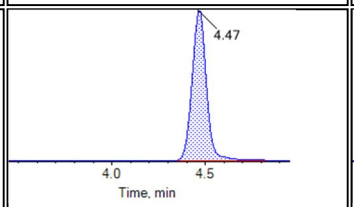


13C6-PFDA



13C7-PFUnA



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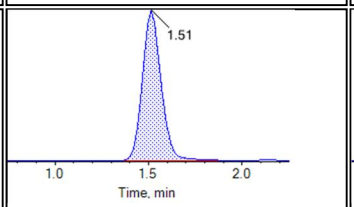

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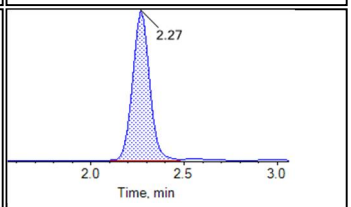

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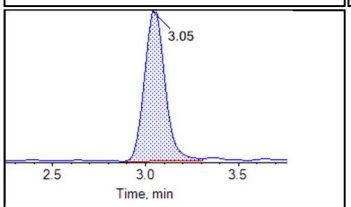

13C8-PFOS

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Chromatogram Report

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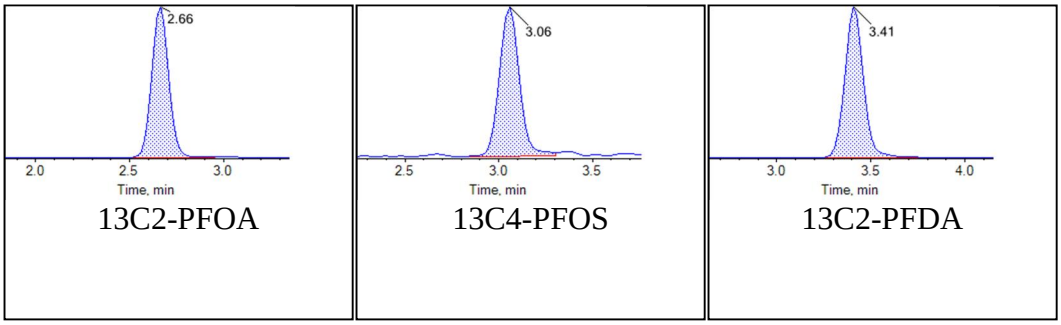
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:25 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(7) | **Injection Vial** | 2 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:37:41 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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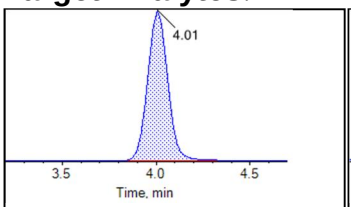
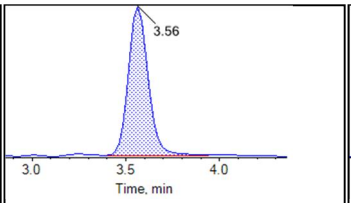
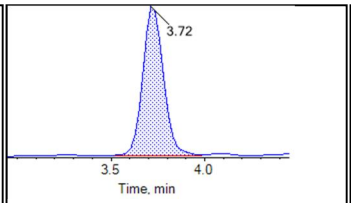


13C2-PFDoA



d3-MeFOSAA



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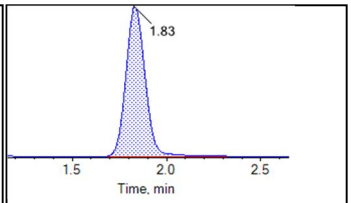

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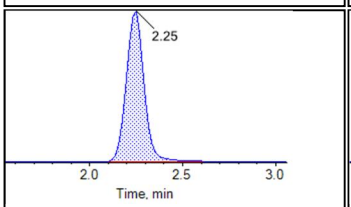

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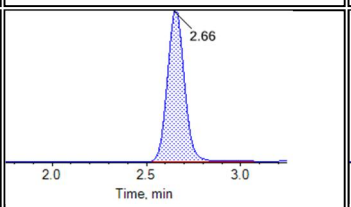

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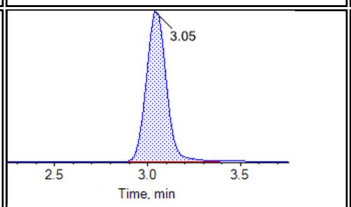

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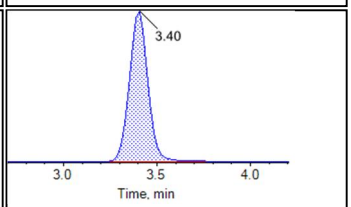

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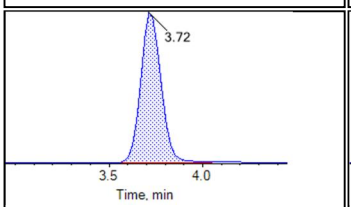
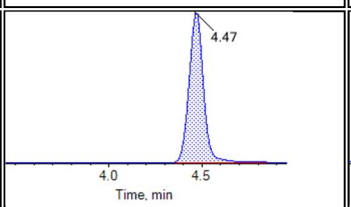
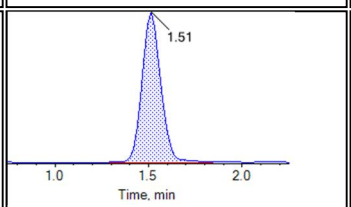


13C7-PFUnA



13C2-PFTeDA



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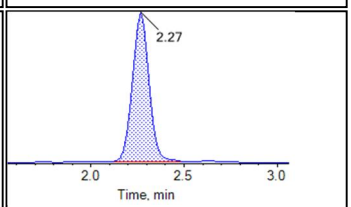
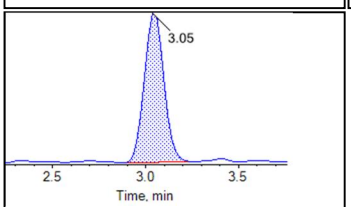


13C3-PFHxS

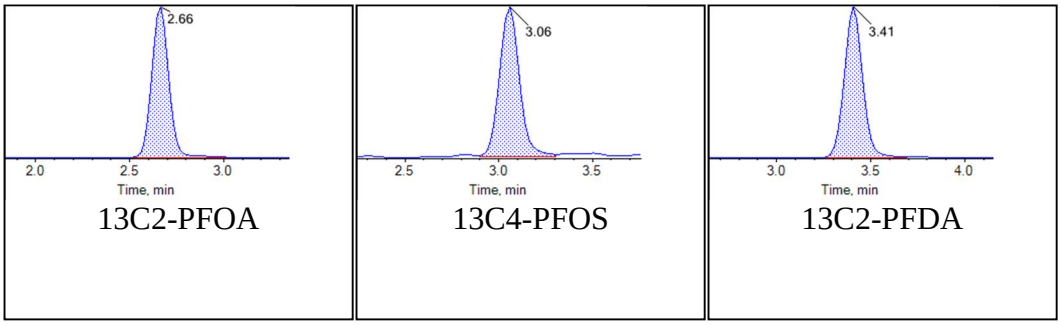


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:25 PM

## Internal Standards:



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(9) | **Injection Vial** | 3 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:48:34 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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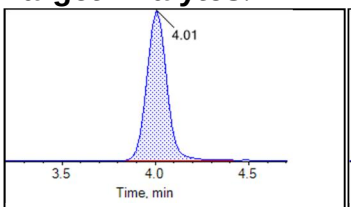

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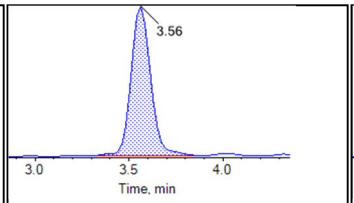

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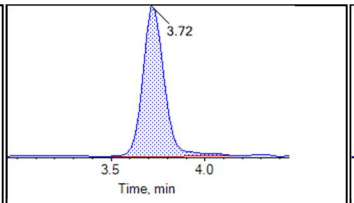

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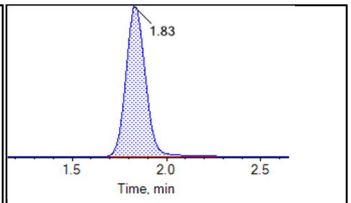

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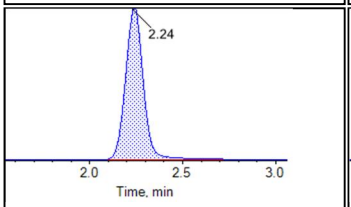

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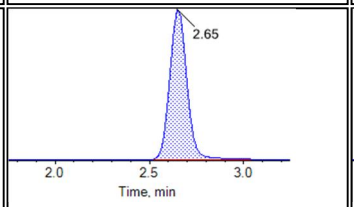

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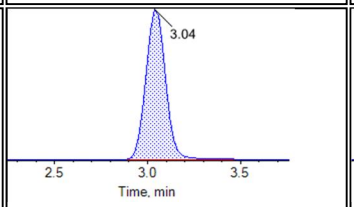
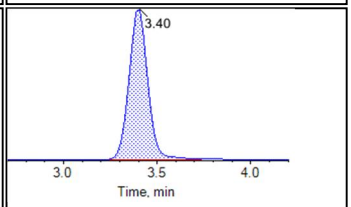
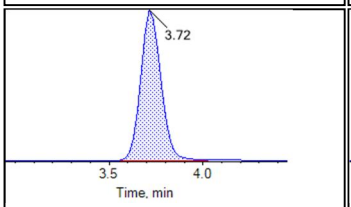


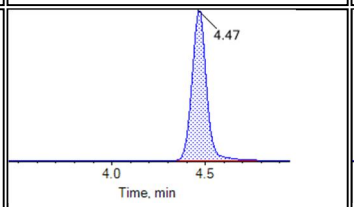
13C9-PFNA



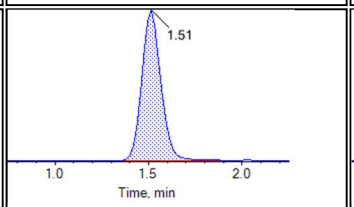
13C6-PFDA



13C7-PFUnA



13C2-PFTeDA



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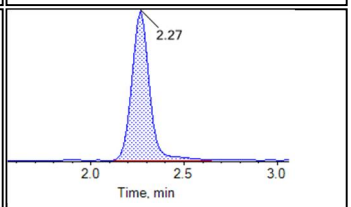

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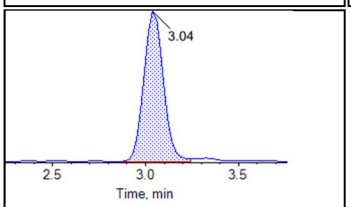

13C8-PFOS

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Chromatogram Report

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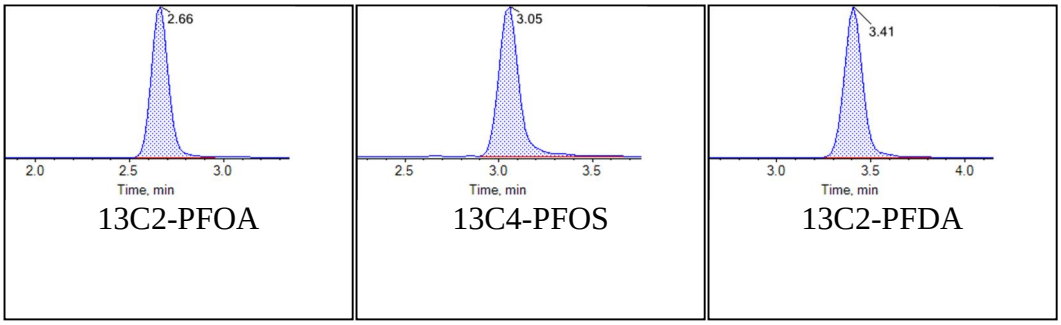
Printed: 22/10/2018 1:39:29 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:33 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 4 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T03:59:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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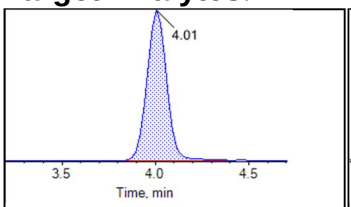

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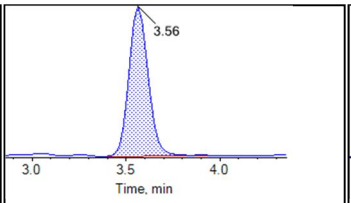

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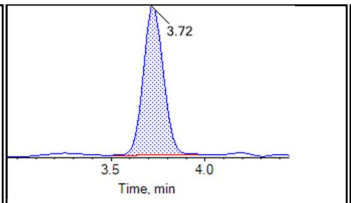

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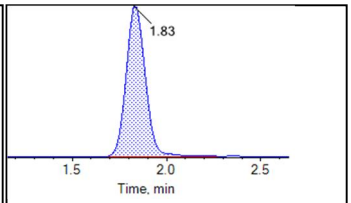

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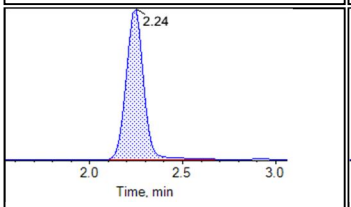

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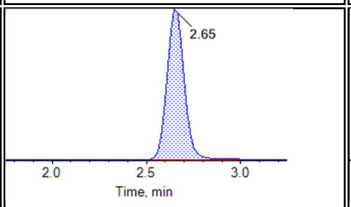

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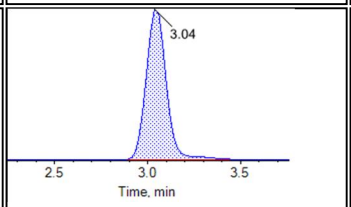

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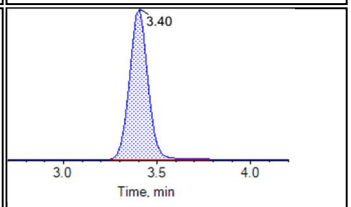
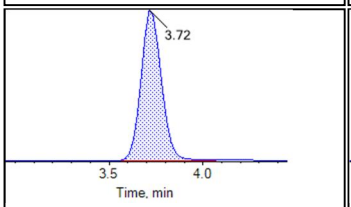
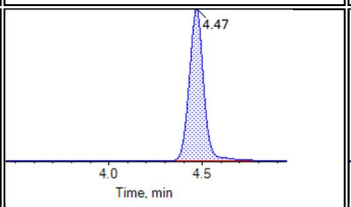


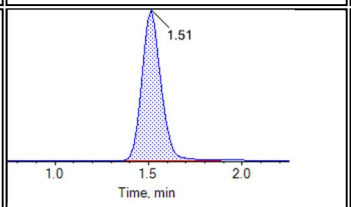
13C6-PFDA



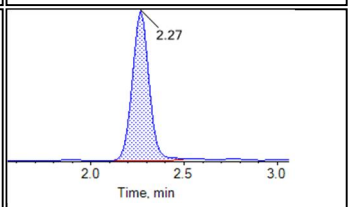
13C7-PFUnA



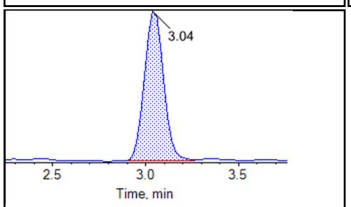
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
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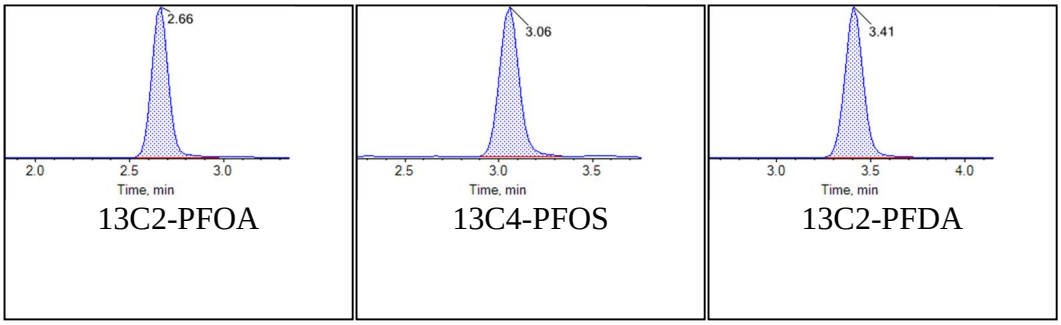

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:41 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS(0) | **Injection Vial** | 6 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:21:11 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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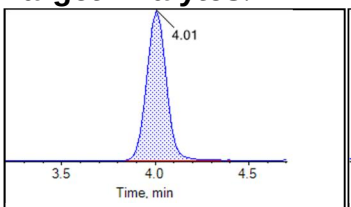
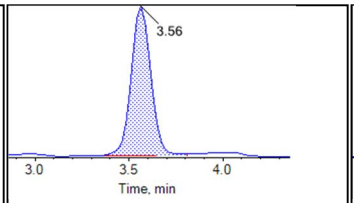
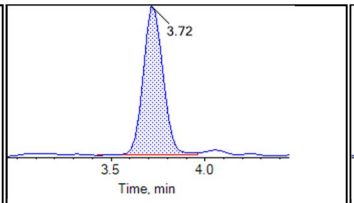


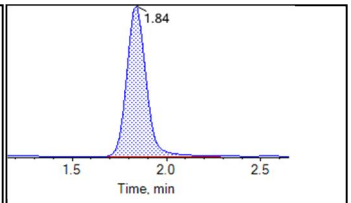
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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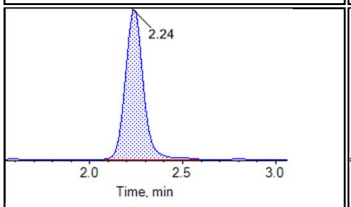

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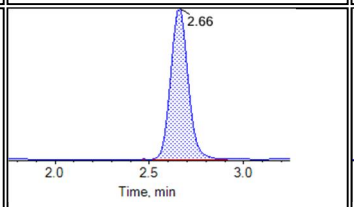

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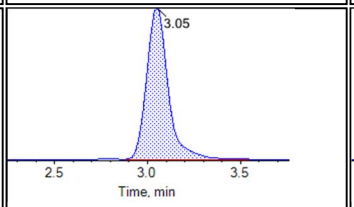

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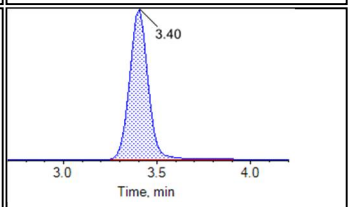
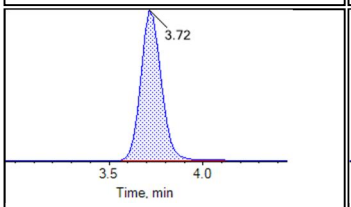
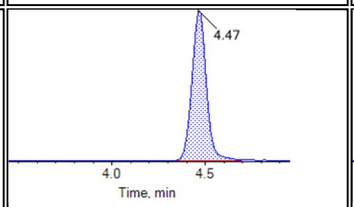


13C6-PFDA



13C7-PFUnA



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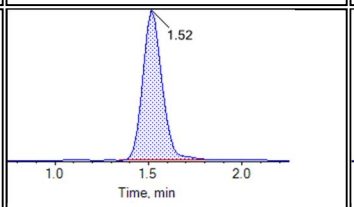
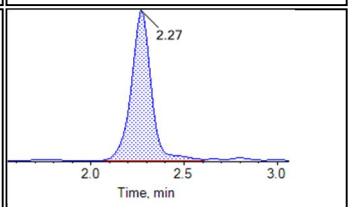
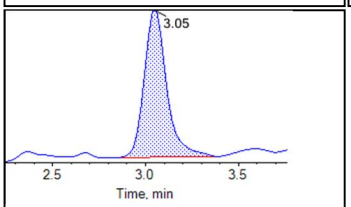


13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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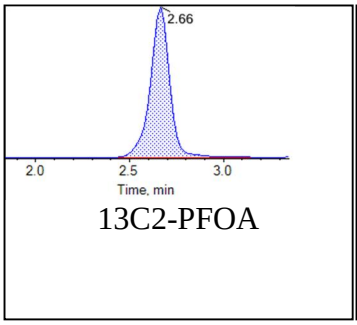
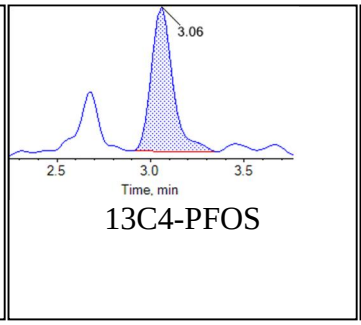
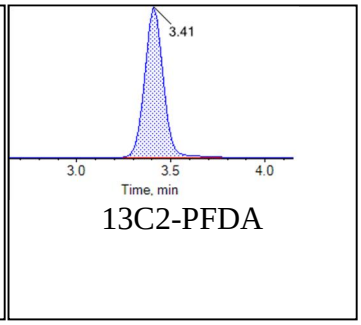
**Internal Standards:**




13C2-PFOA




13C4-PFOS




13C2-PFDA

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(3) | **Injection Vial** | 7 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:32:03 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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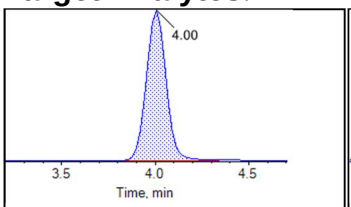
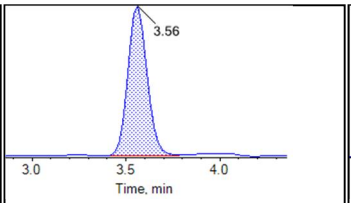
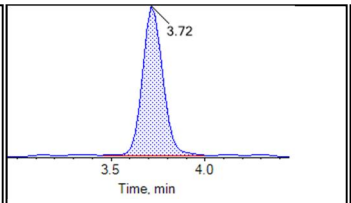


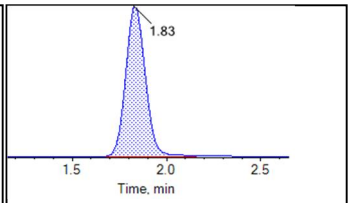
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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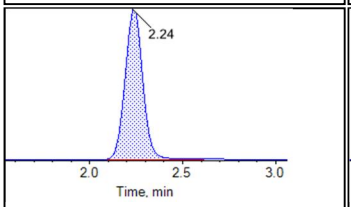

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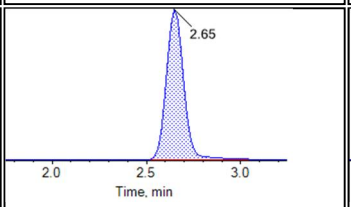
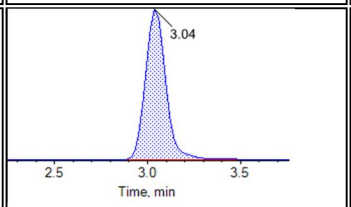
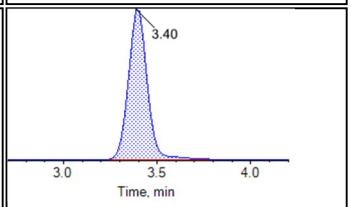


13C8-PFOA



13C9-PFNA



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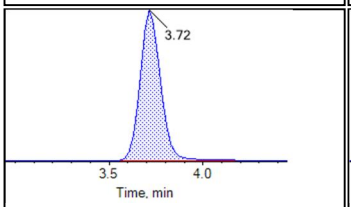
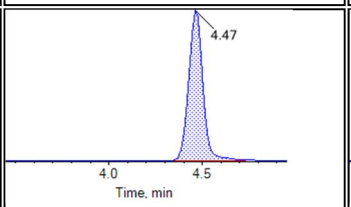
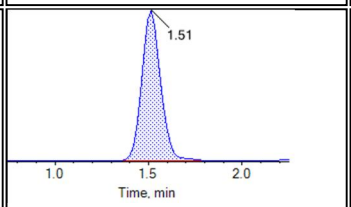


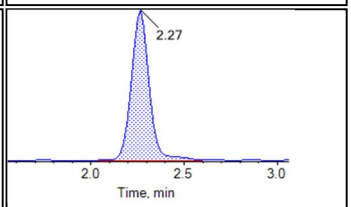
13C7-PFUnA



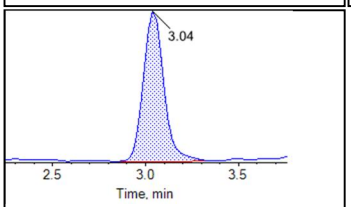
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

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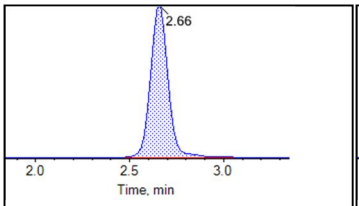
Printed: 22/10/2018 1:39:45 PM

## Internal Standards:

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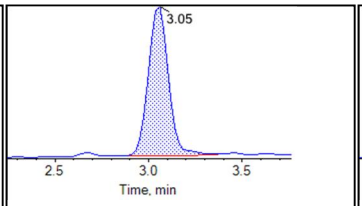
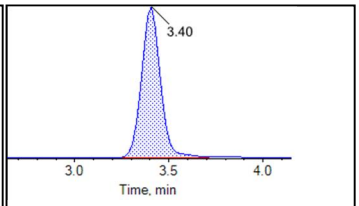



13C4-PFOS




13C2-PFDA

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:39:50 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(5) | **Injection Vial** | 8 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T04:42:55 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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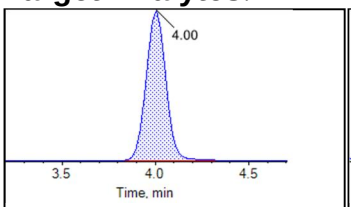

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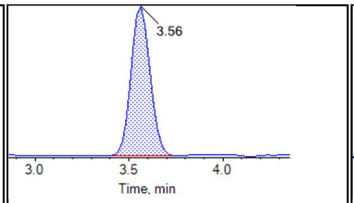
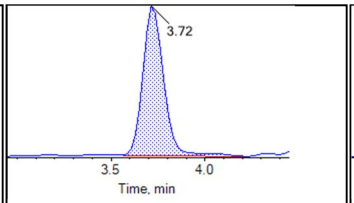


d3-MeFOSAA



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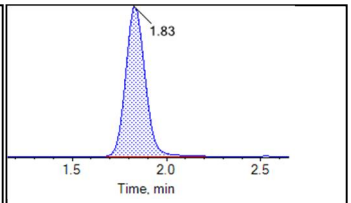

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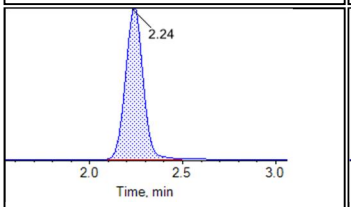

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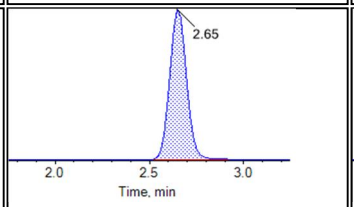
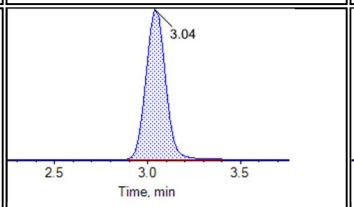


13C8-PFOA



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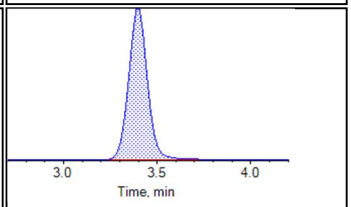
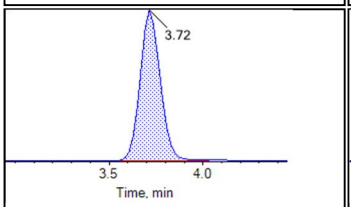
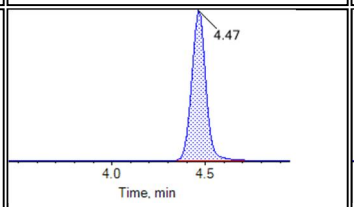


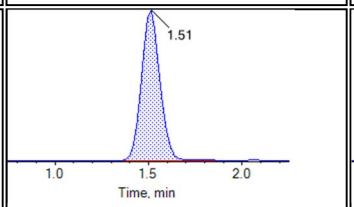
13C6-PFDA



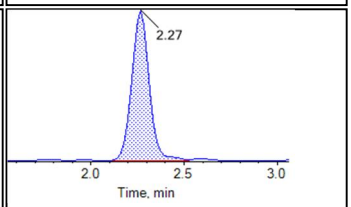
13C7-PFUnA



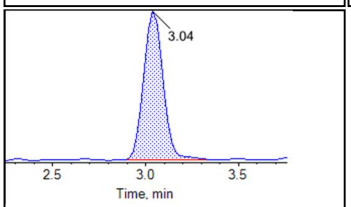
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

BATTELLE

Chromatogram Report

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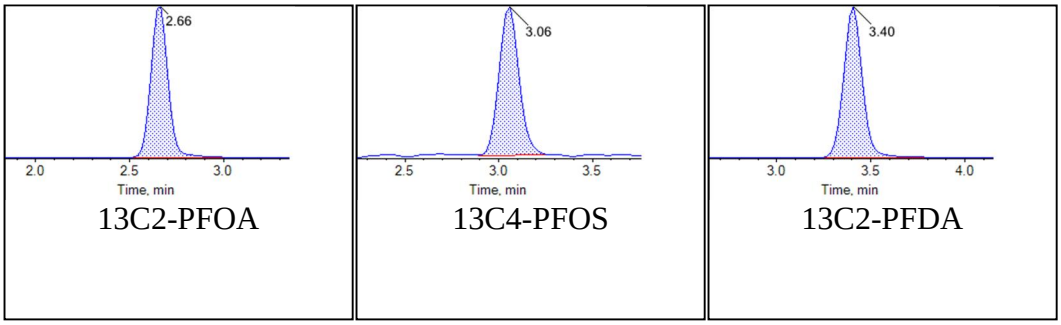
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS(0) | **Injection Vial** | 11 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:15:33 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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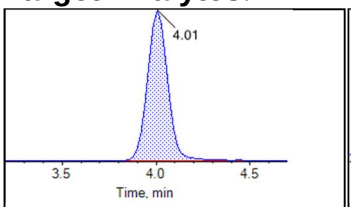
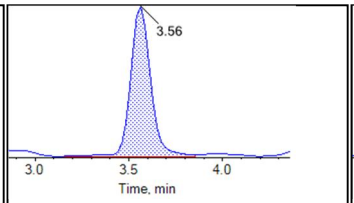
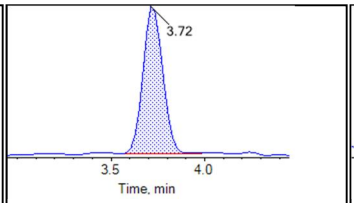


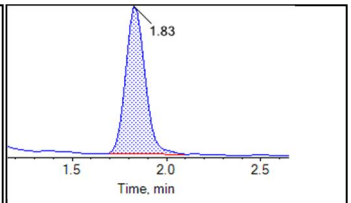
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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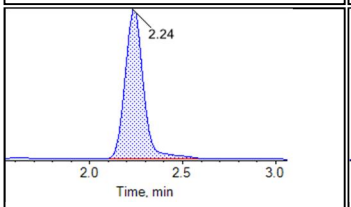
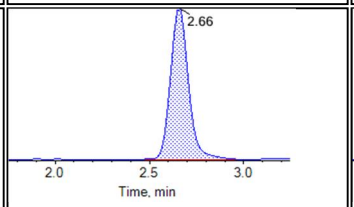


13C4-PFHpA



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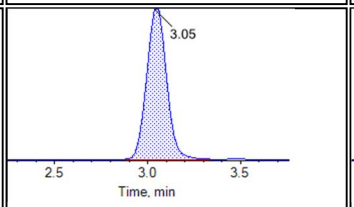
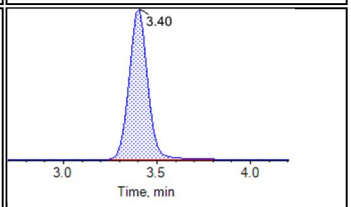


13C9-PFNA



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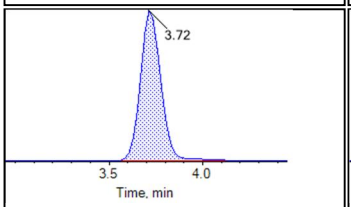
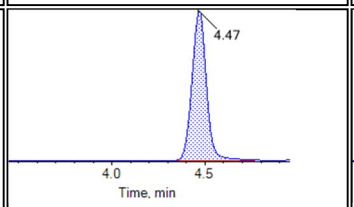


13C7-PFUnA



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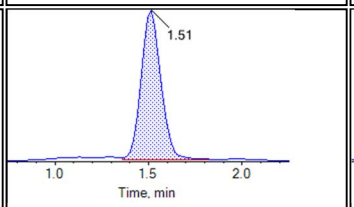
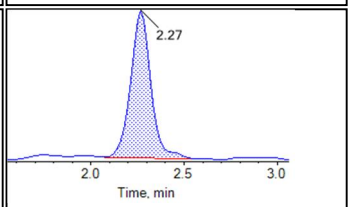
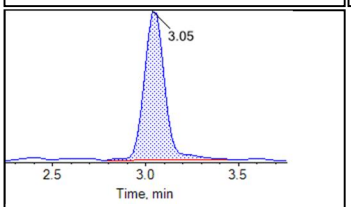


13C3-PFBS



13C3-PFHxS

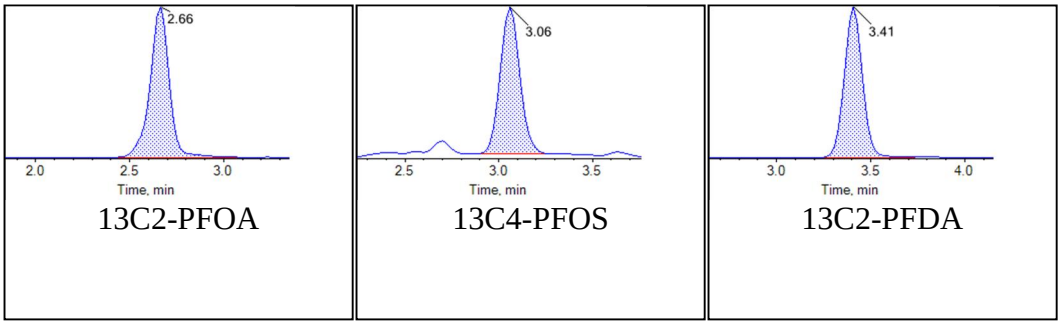


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:03 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:07 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(3) | **Injection Vial** | 12 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:26:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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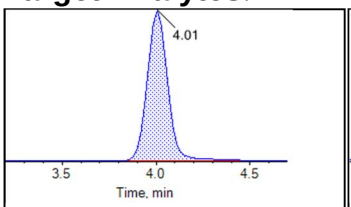
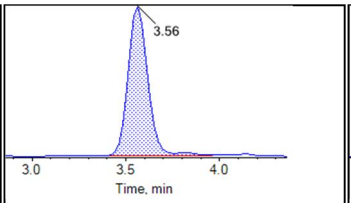
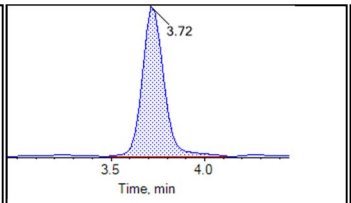


13C2-PFDoA



d3-MeFOSAA



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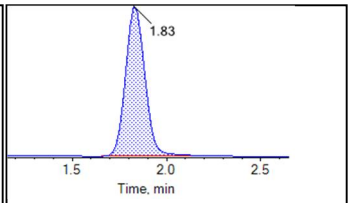

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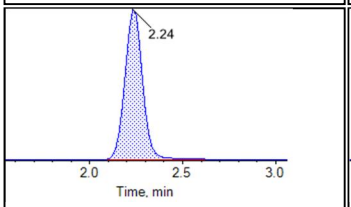

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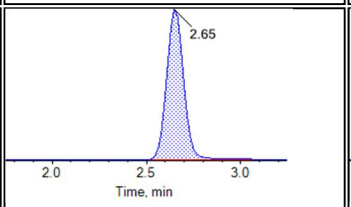
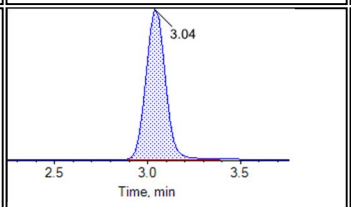
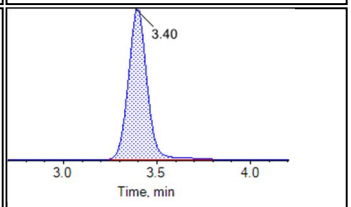


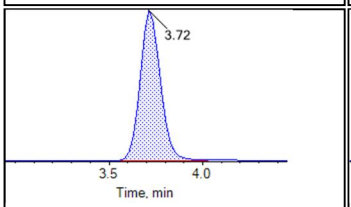
13C8-PFOA



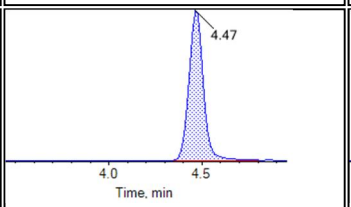
13C9-PFNA



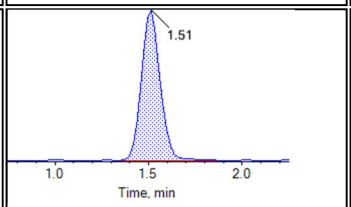
13C6-PFDA



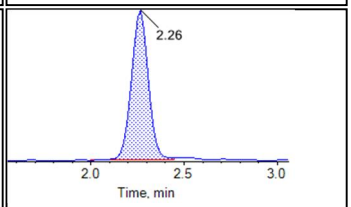
13C7-PFUnA



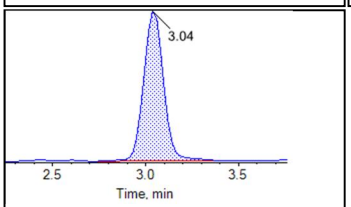
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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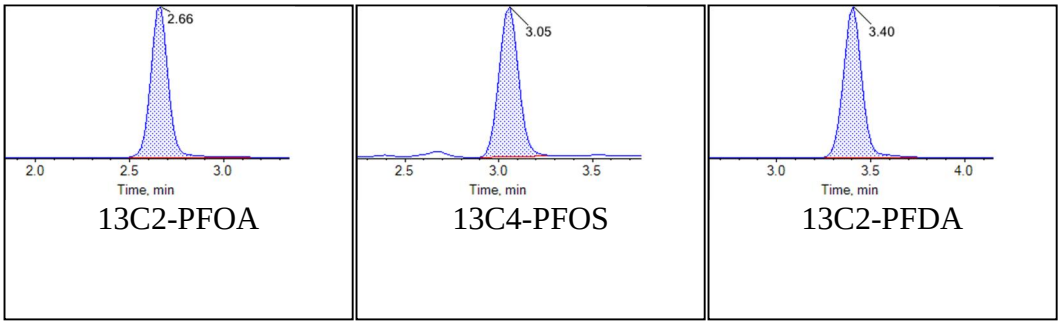
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:07 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:11 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(5) | **Injection Vial** | 13 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:37:18 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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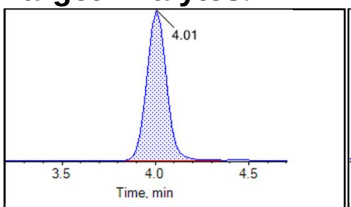
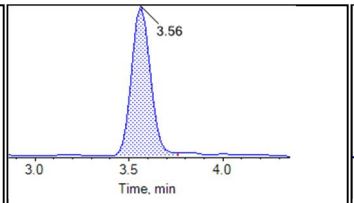
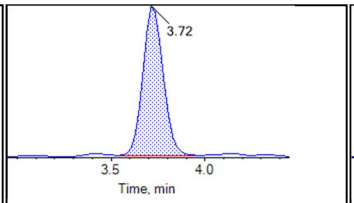


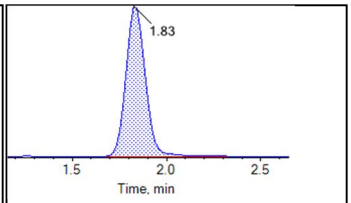
13C2-PFDoA



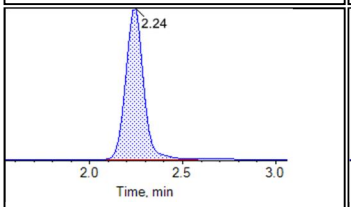
d3-MeFOSAA



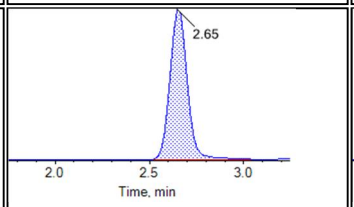
d5-EtFOSAA



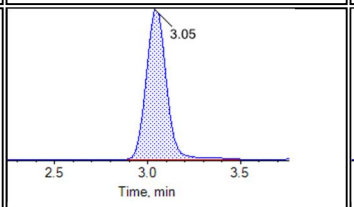
13C5-PFHxA



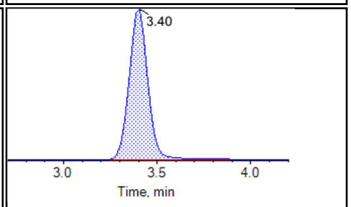
13C4-PFHpA



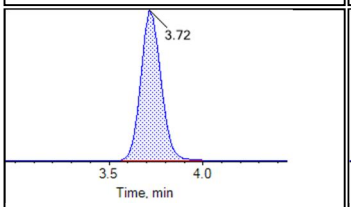
13C8-PFOA



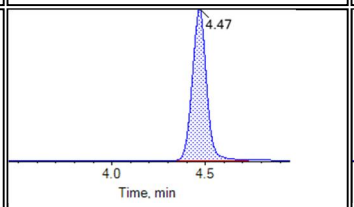
13C9-PFNA



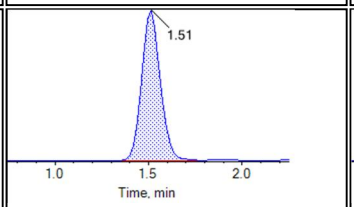
13C6-PFDA



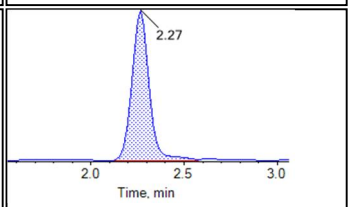
13C7-PFUnA



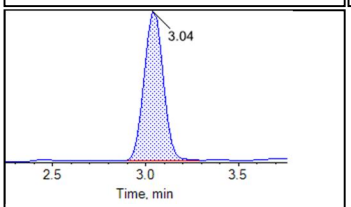
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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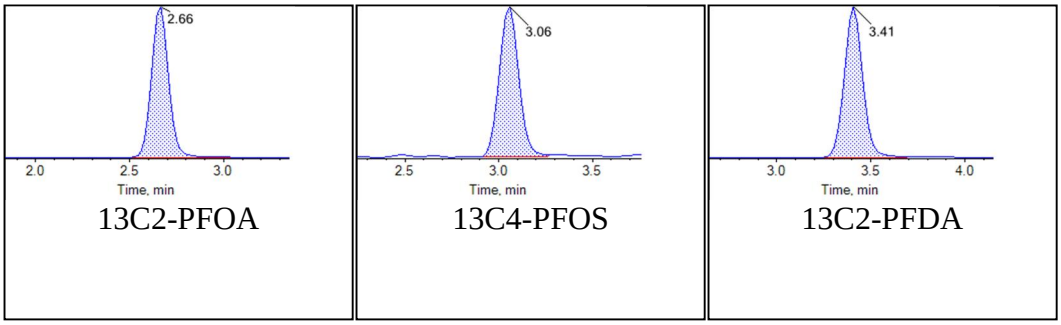
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:11 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:15 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(7) | **Injection Vial** | 14 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:48:10 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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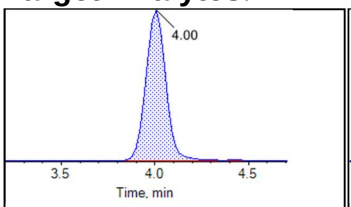
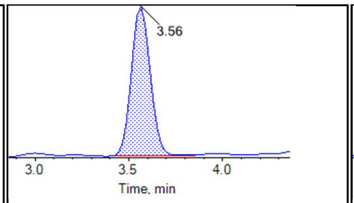
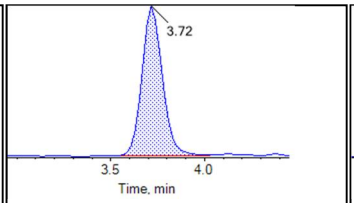


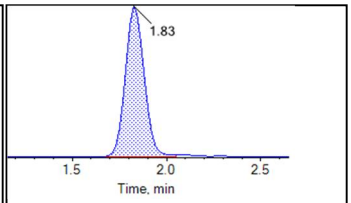
13C2-PFDoA



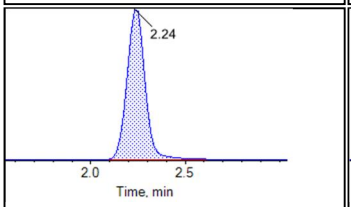
d3-MeFOSAA



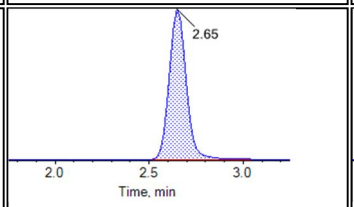
d5-EtFOSAA



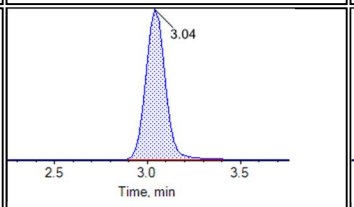
13C5-PFHxA



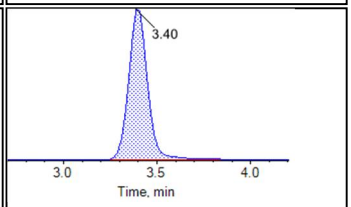
13C4-PFHpA



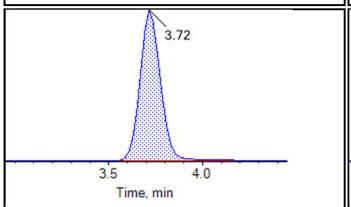
13C8-PFOA



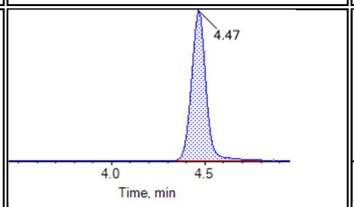
13C9-PFNA



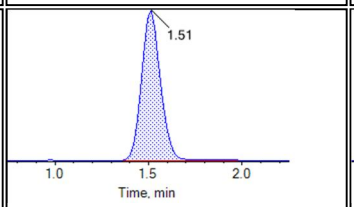
13C6-PFDA



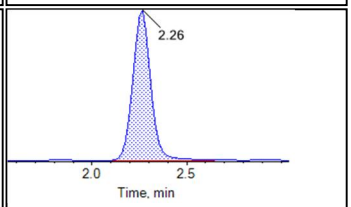
13C7-PFUnA



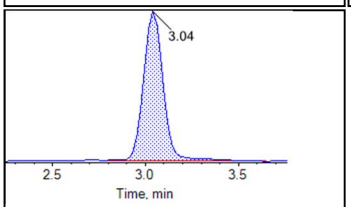
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

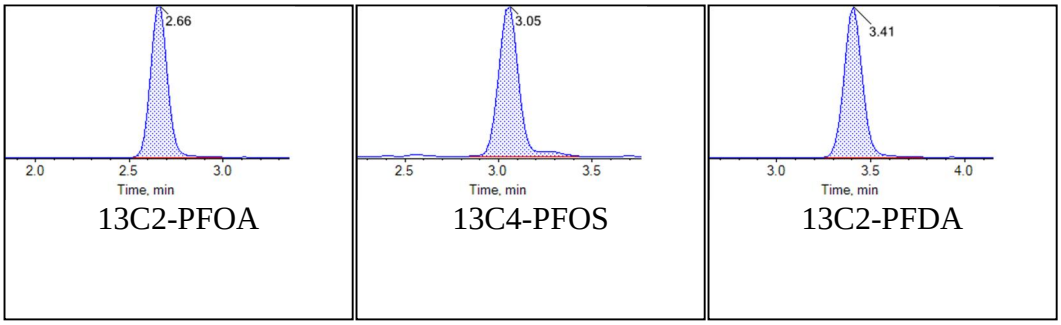


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:15 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:20 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 15 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T05:59:02 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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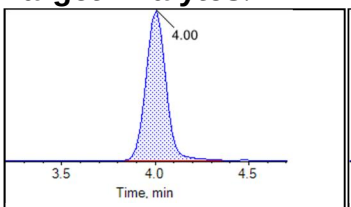
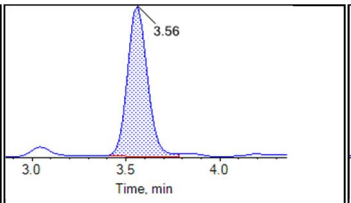
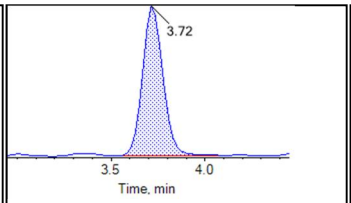


13C2-PFDoA



d3-MeFOSAA



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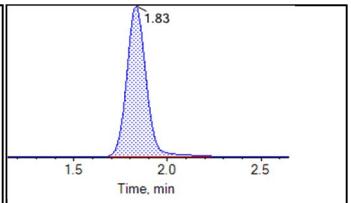

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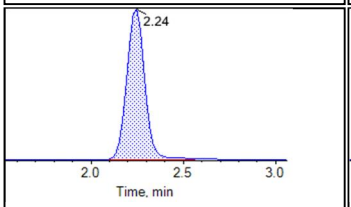

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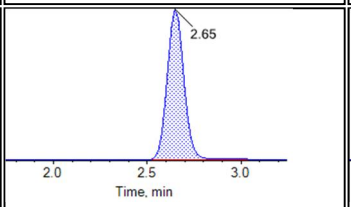

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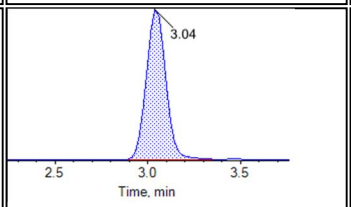

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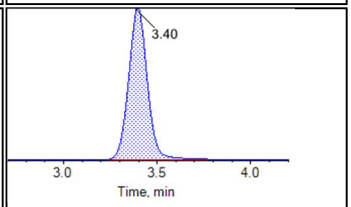

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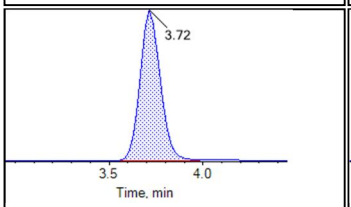
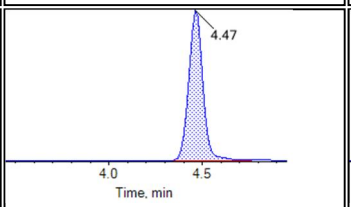
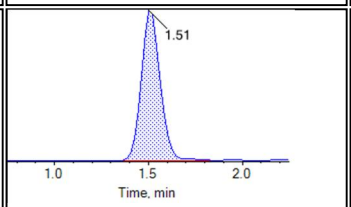


13C7-PFUnA



13C2-PFTeDA



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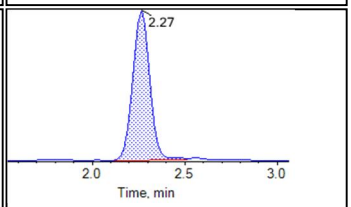
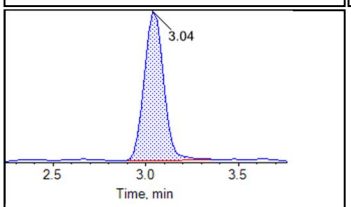


13C3-PFHxS

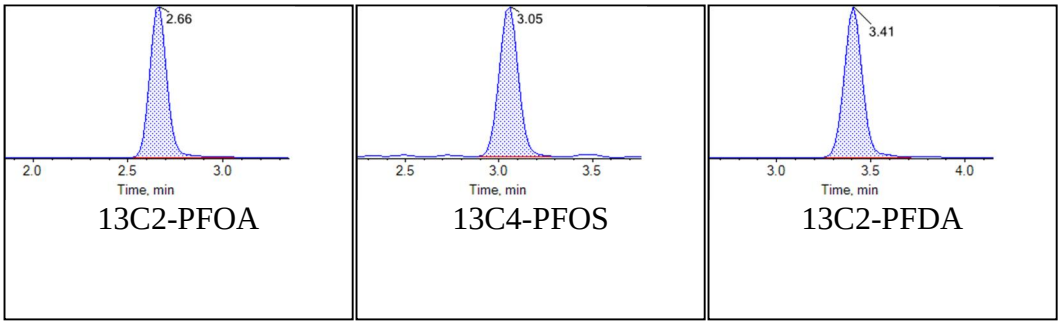


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:20 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:28 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:20:46 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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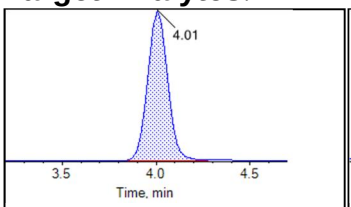

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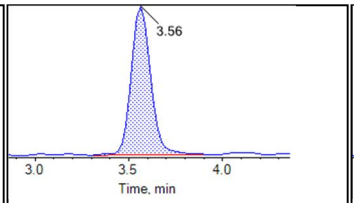

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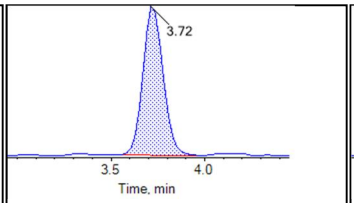

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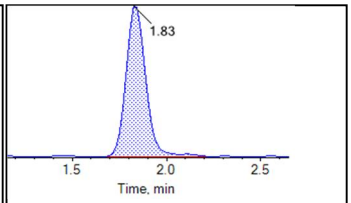

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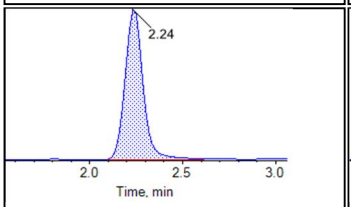

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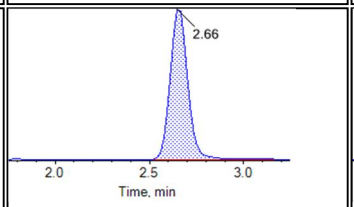

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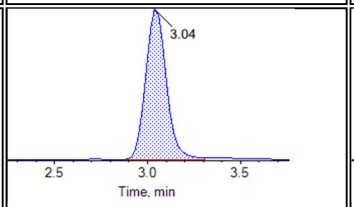
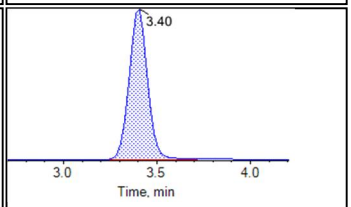
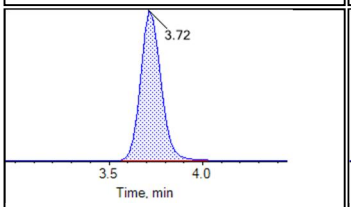


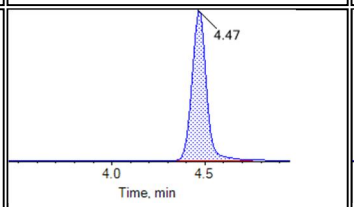
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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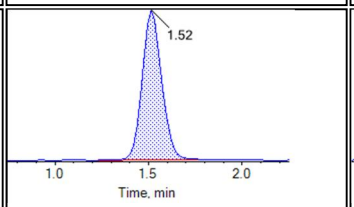

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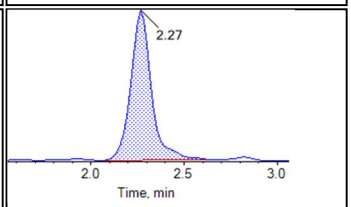
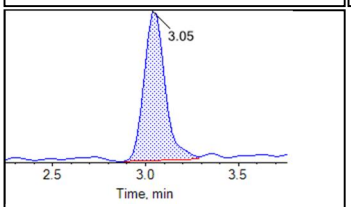


13C3-PFHxS



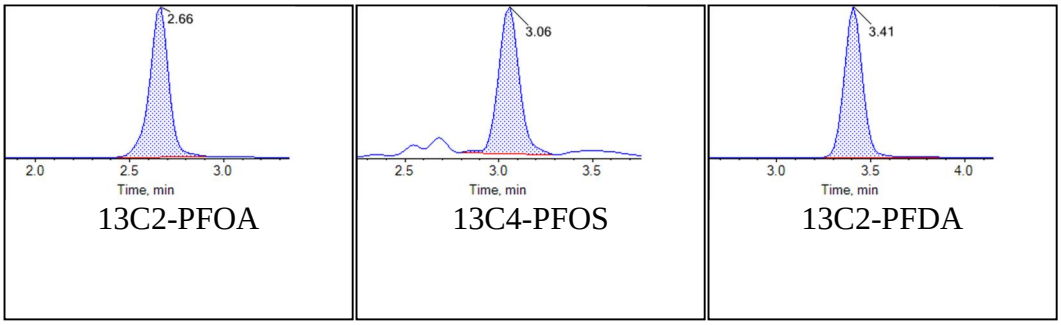
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:28 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:32 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(3) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:31:38 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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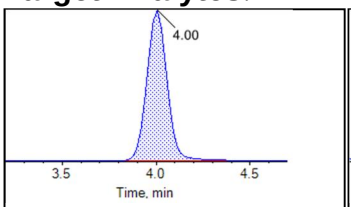

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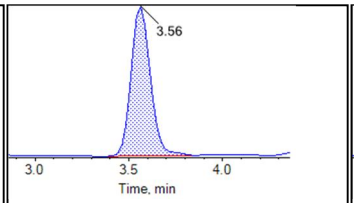

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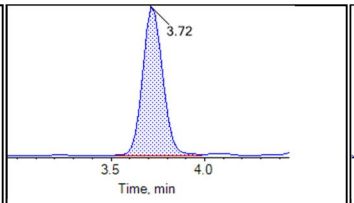

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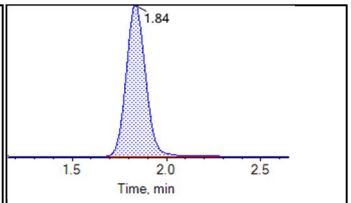

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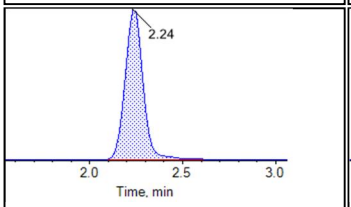

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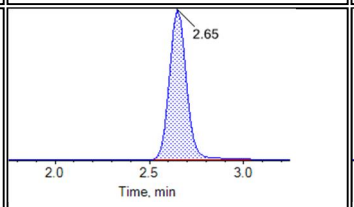

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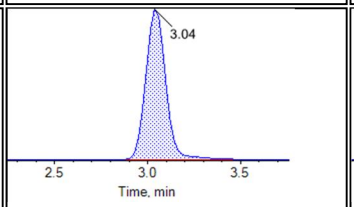
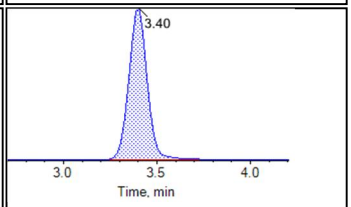
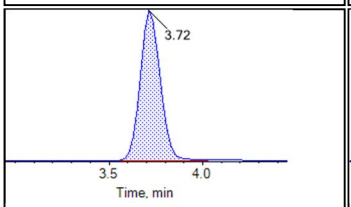


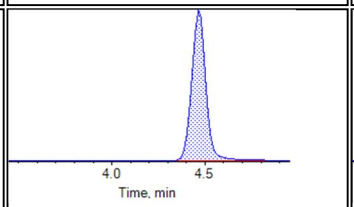
13C9-PFNA



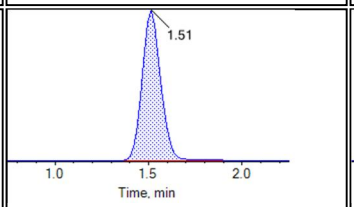
13C6-PFDA



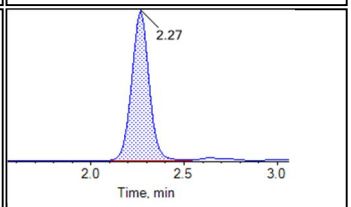
13C7-PFUnA



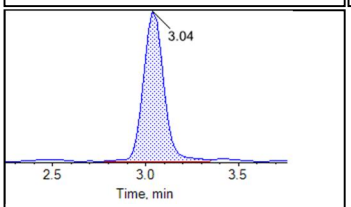
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

BATTELLE

Chromatogram Report

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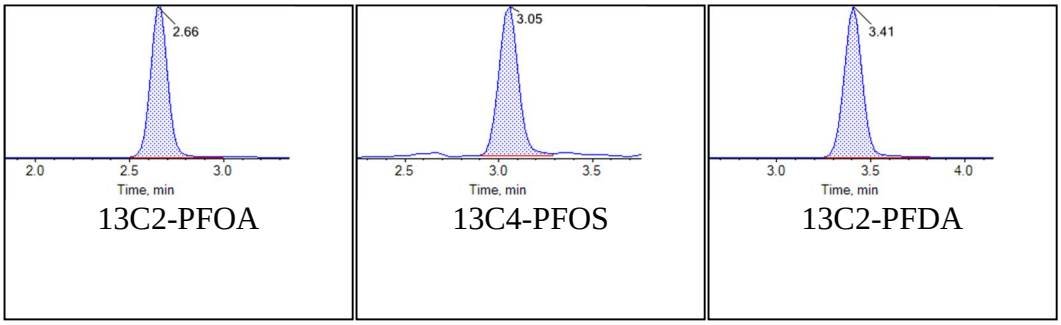
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(5) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:42:30 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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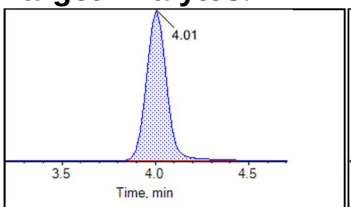

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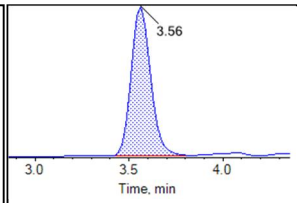

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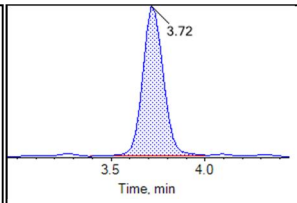
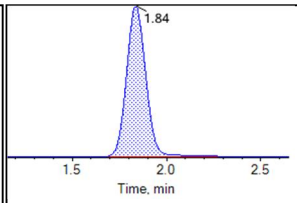


d5-EtFOSAA



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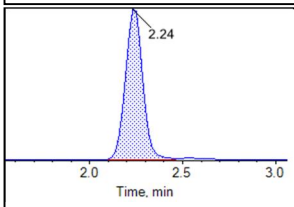

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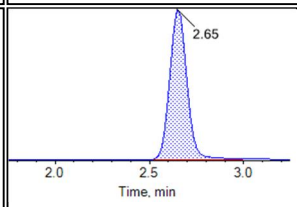

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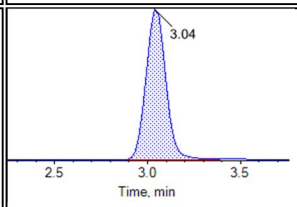

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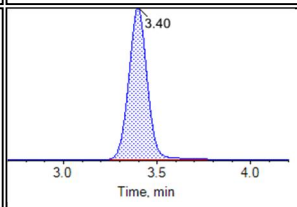

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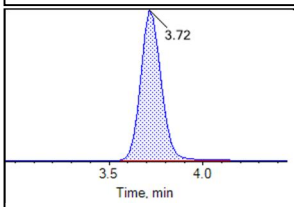
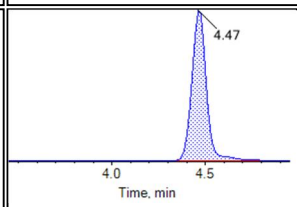


13C7-PFUnA



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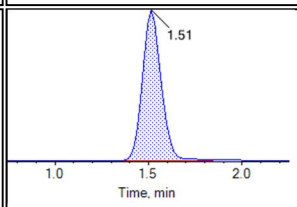
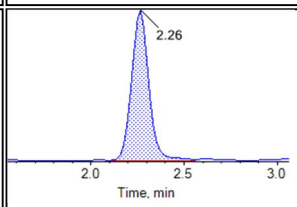
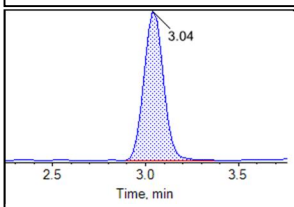


13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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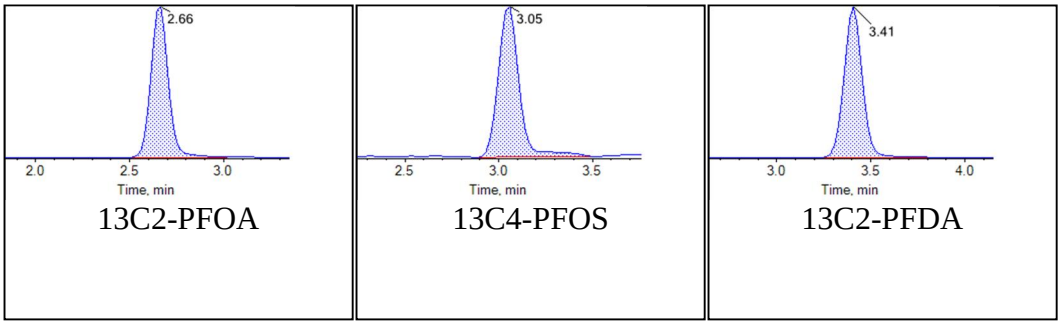

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:40 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(7) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T06:53:23 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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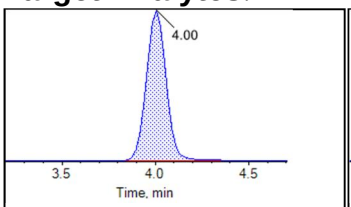

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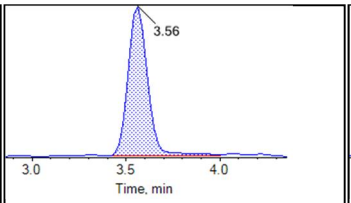
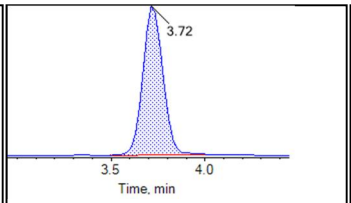
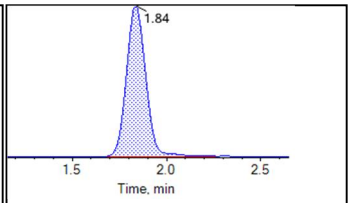


d3-MeFOSAA



d5-EtFOSAA



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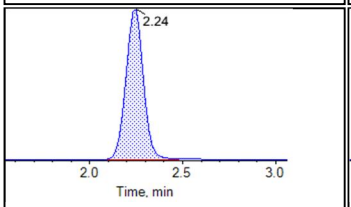

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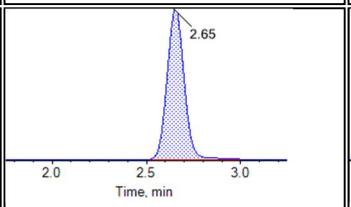
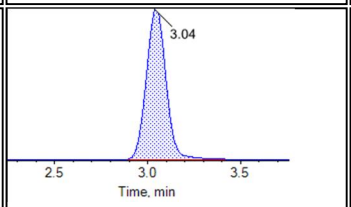


13C8-PFOA



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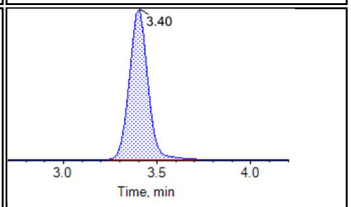
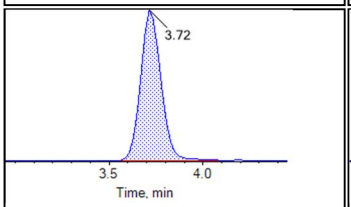


13C6-PFDA



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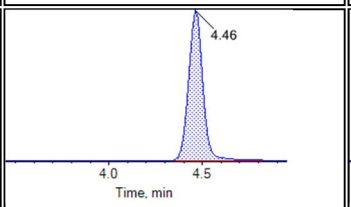
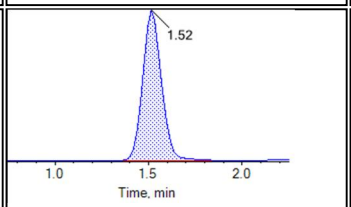
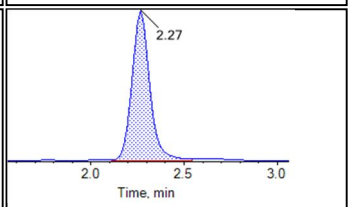


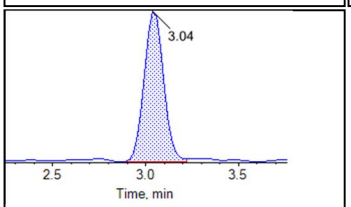
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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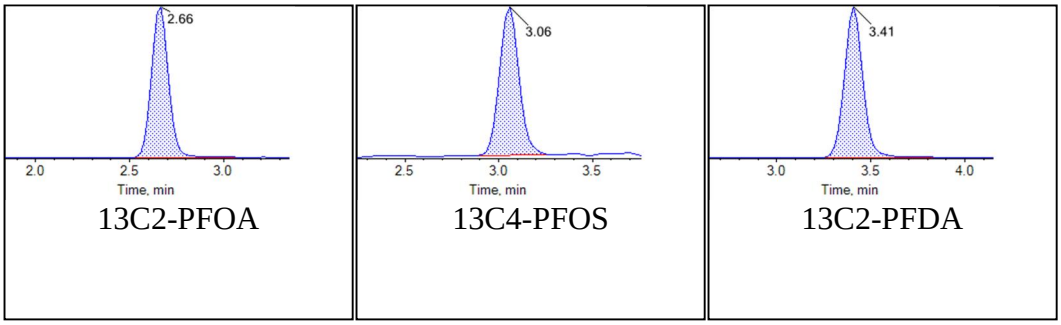
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(9) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:04:15 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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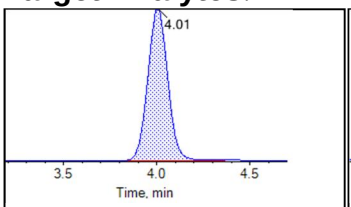

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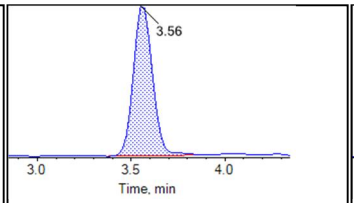

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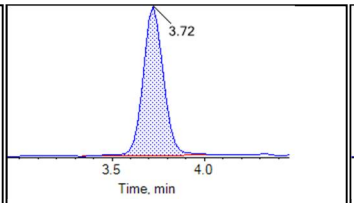

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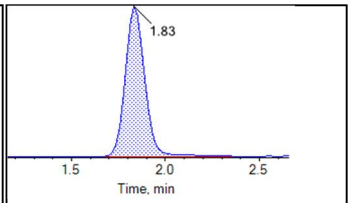

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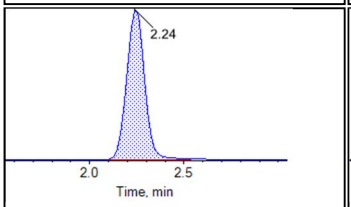

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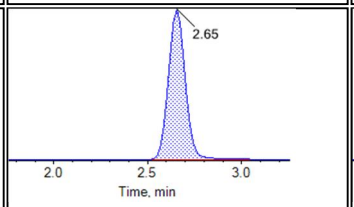

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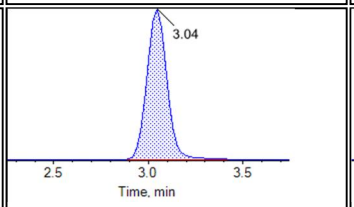

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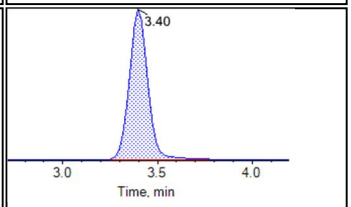
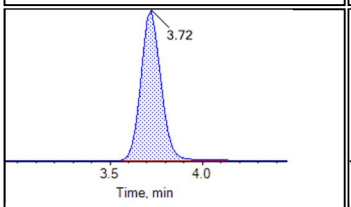


13C6-PFDA



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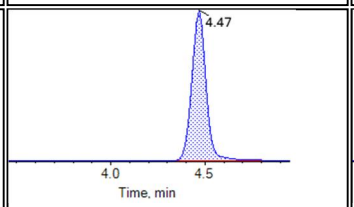
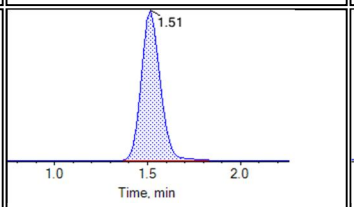
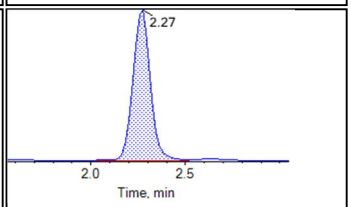


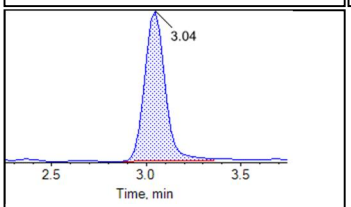
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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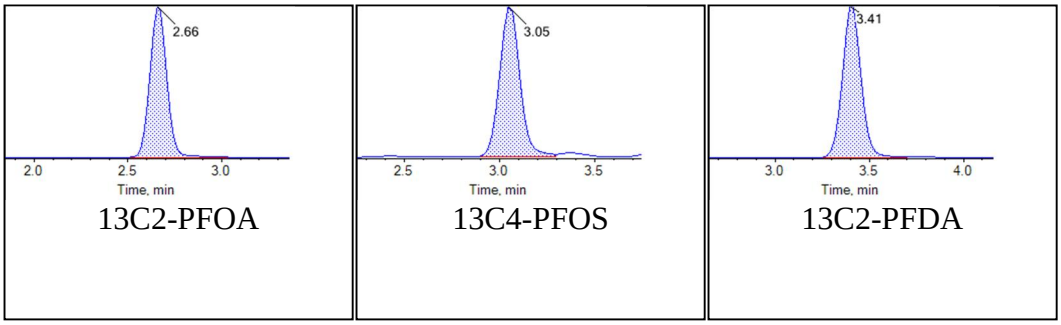

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:49 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS(0) | **Injection Vial** | 22 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:15:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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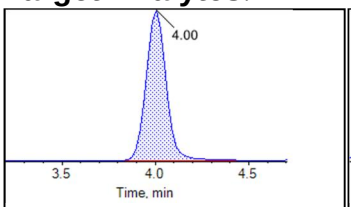

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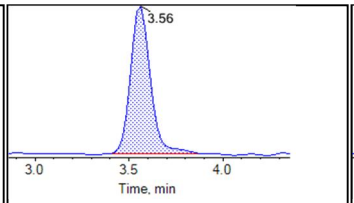
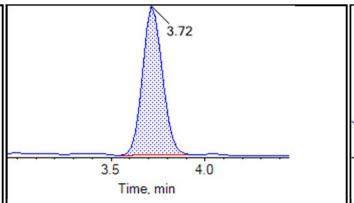
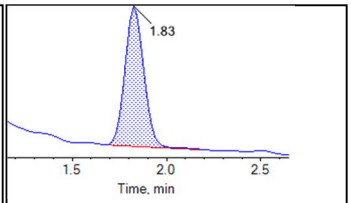


d3-MeFOSAA



d5-EtFOSAA



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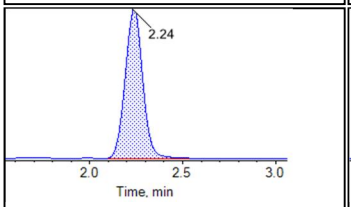

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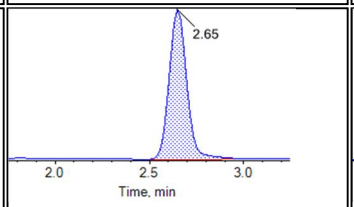

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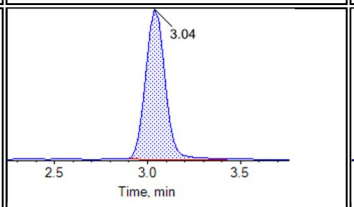

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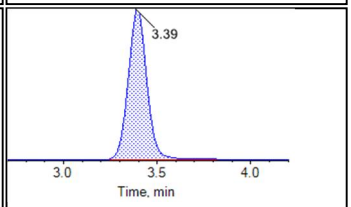

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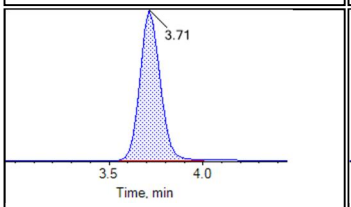

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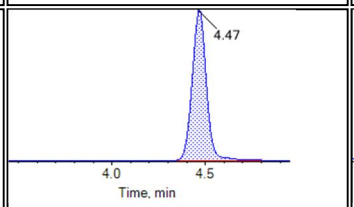

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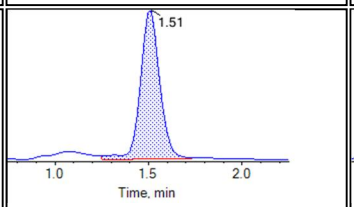

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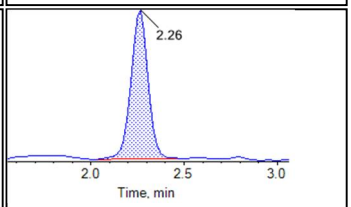

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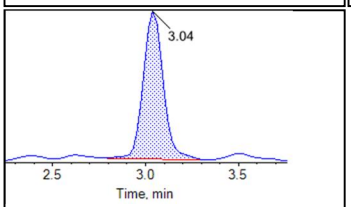

13C8-PFOS

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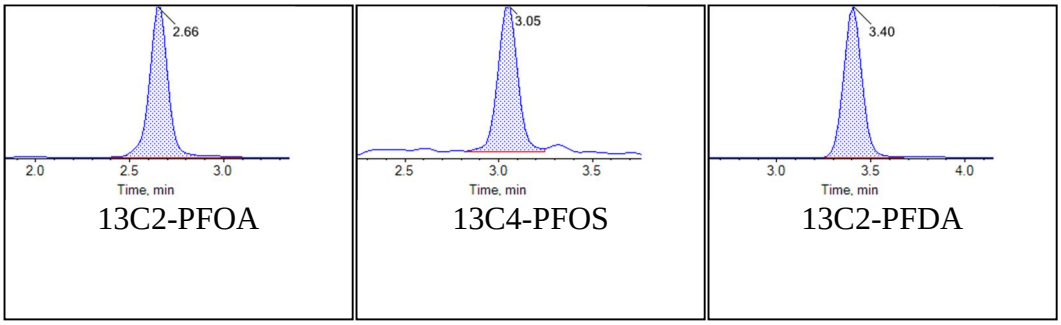

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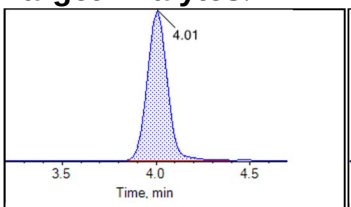
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:53 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(3) | **Injection Vial** | 23 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:26:01 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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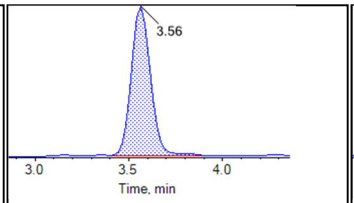
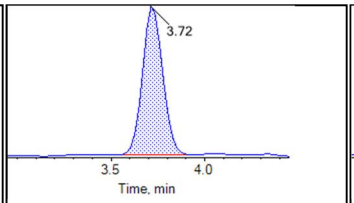


d3-MeFOSAA



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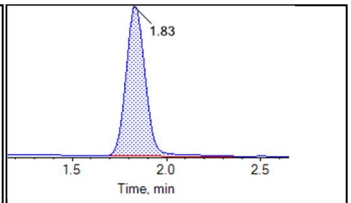

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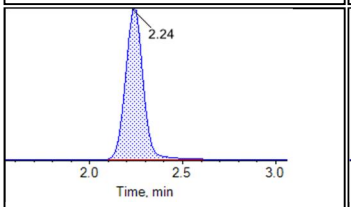

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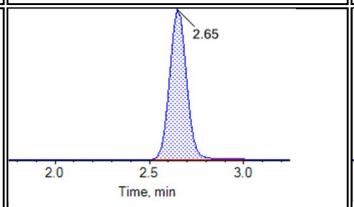

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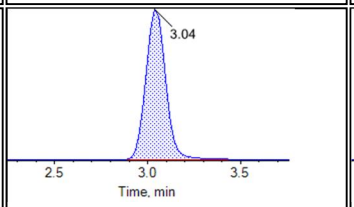
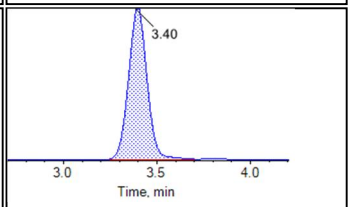
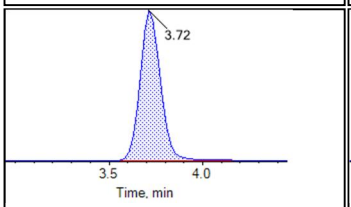


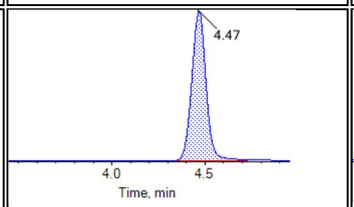
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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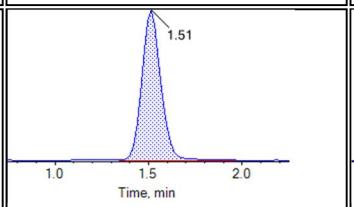
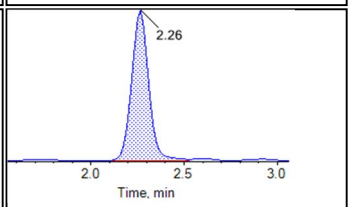
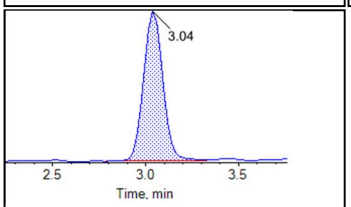


13C3-PFBS



13C3-PFHxS

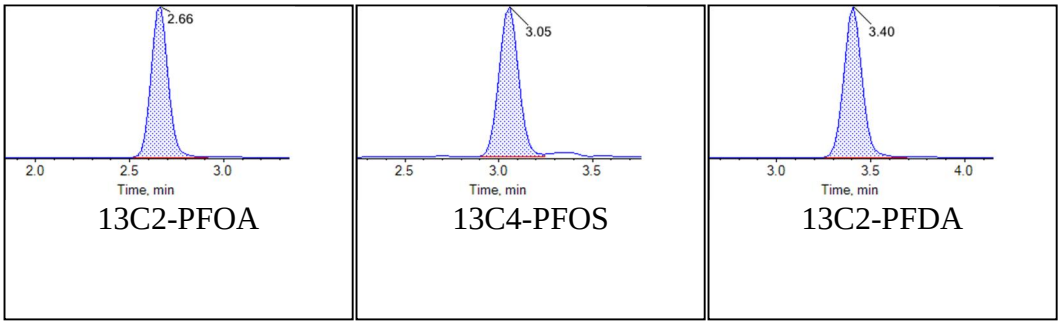


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:53 PM

## Internal Standards:



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:58 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:36:54 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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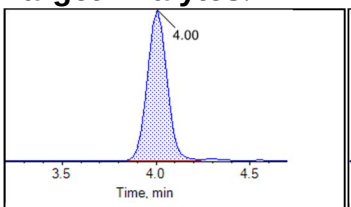

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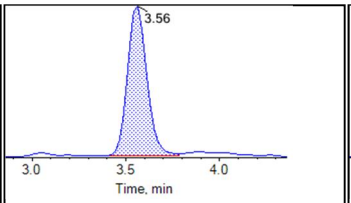
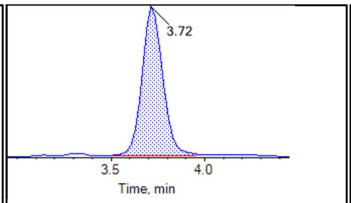


d3-MeFOSAA



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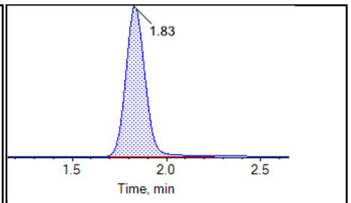

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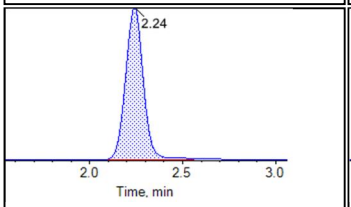

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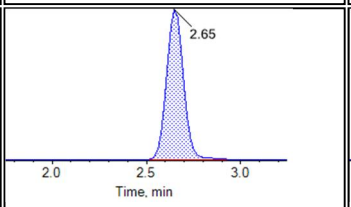

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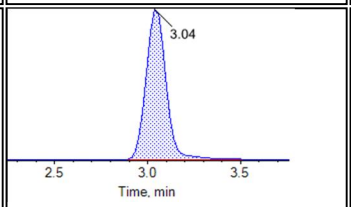

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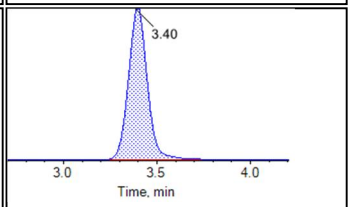
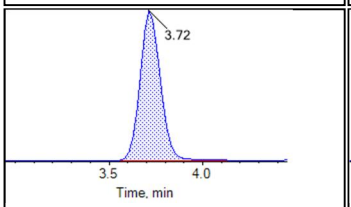
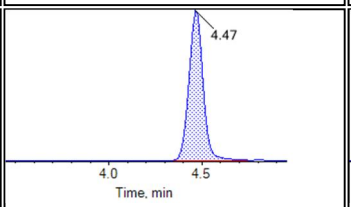


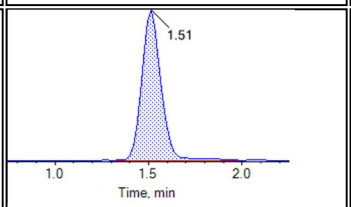
13C6-PFDA



13C7-PFUnA



13C2-PFTeDA



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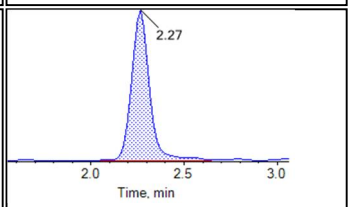
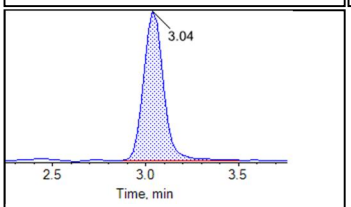


13C3-PFHxS



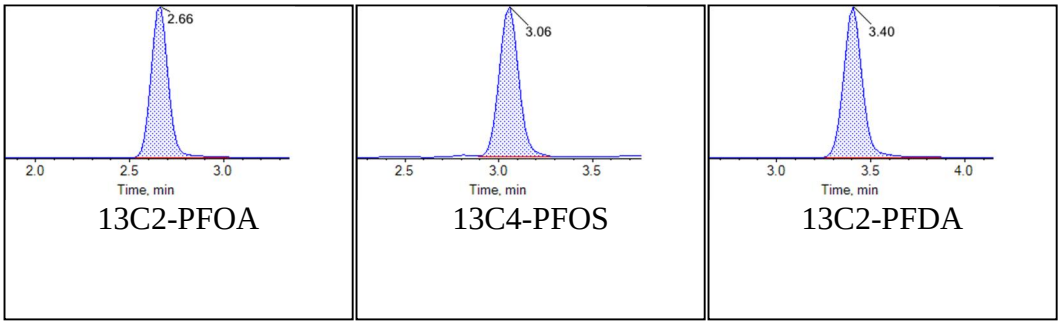
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:40:58 PM

**Internal Standards:**



BATTELLE

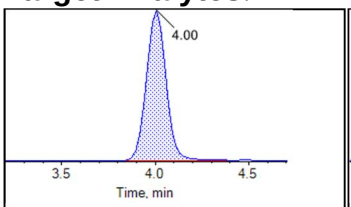
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:07 PM

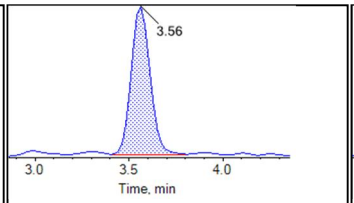
| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS(0) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T07:58:39 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

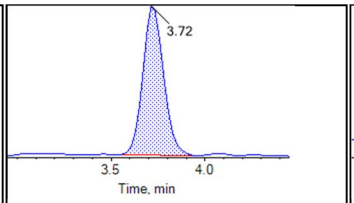
### Target Analytes:



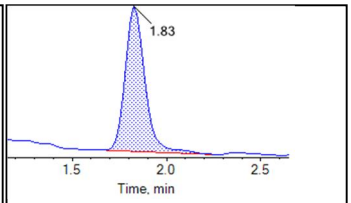
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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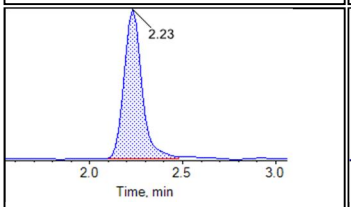
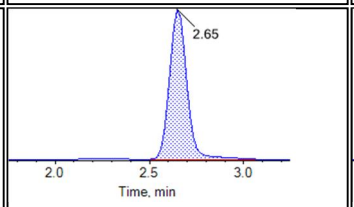
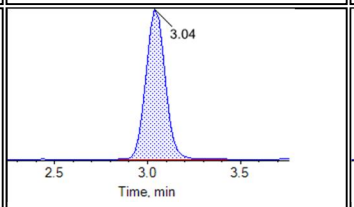


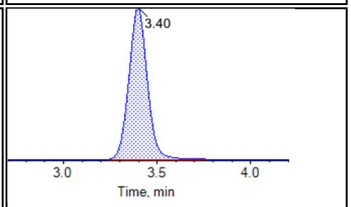
13C4-PFHpA



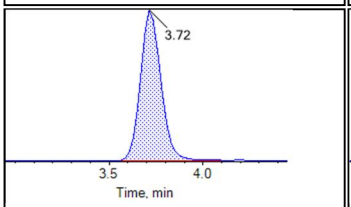
13C8-PFOA



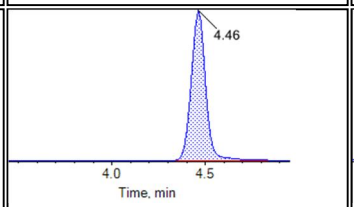
13C9-PFNA



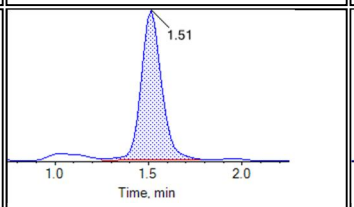
13C6-PFDA



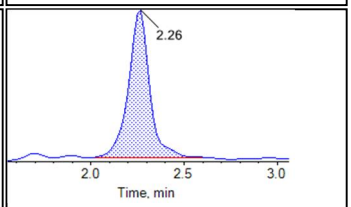
13C7-PFUnA



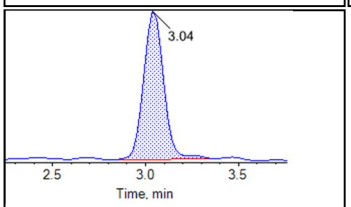
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

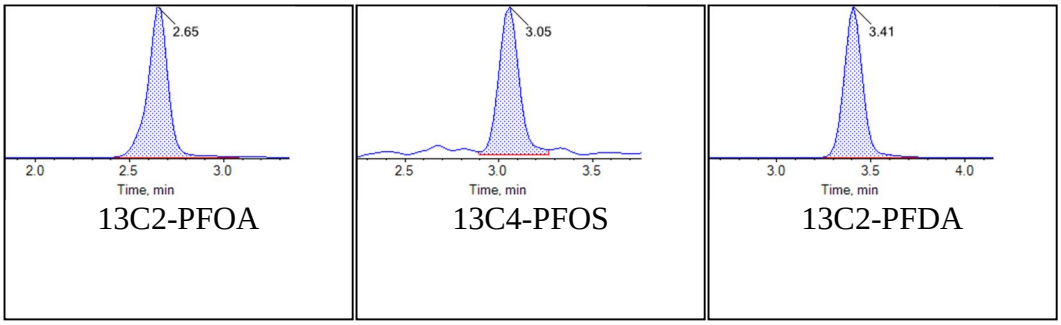


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:07 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(3) | **Injection Vial** | 27 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:09:29 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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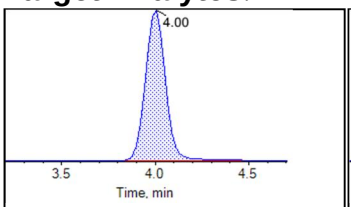
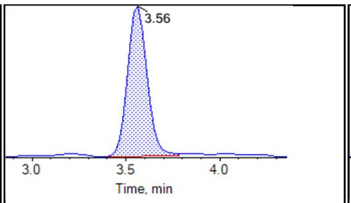
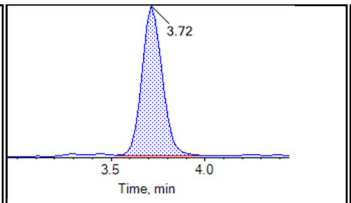


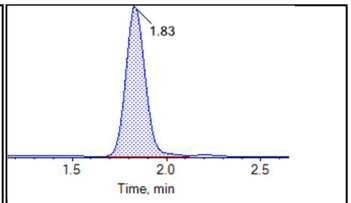
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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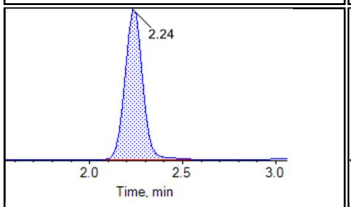
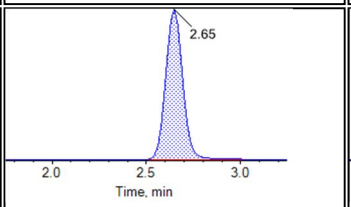


13C4-PFHpA



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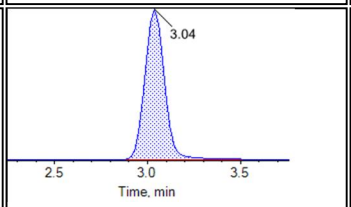

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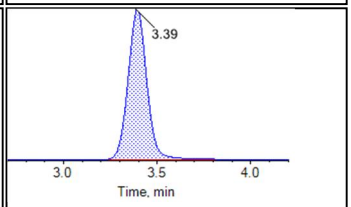
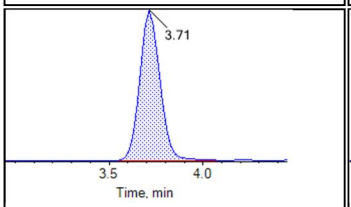
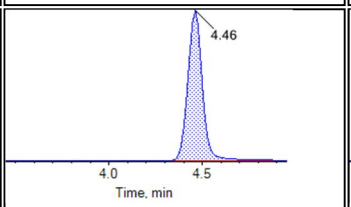


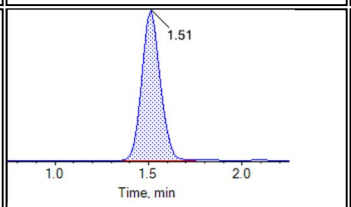
13C6-PFDA



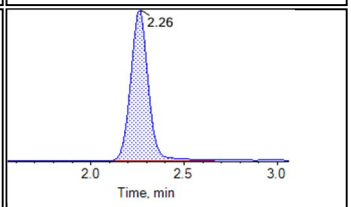
13C7-PFUnA



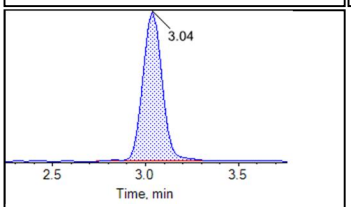
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:41:12 PM

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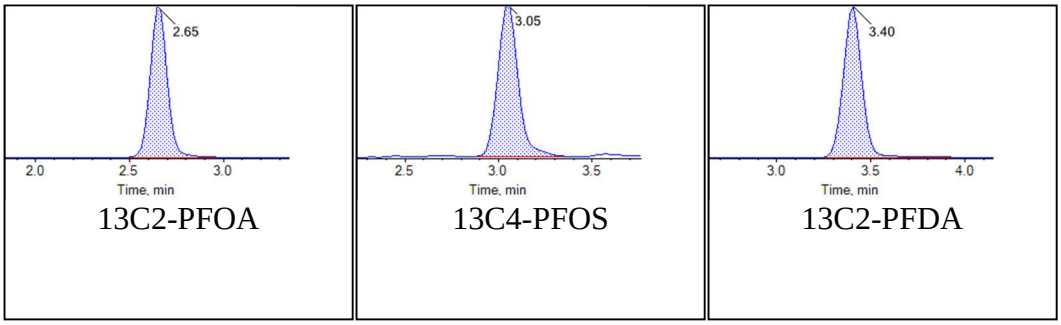

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:16 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:20:22 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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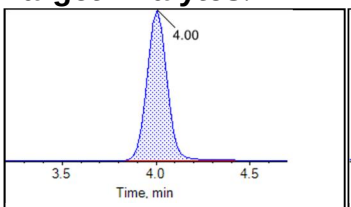

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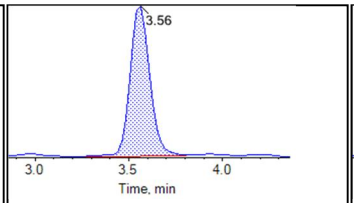

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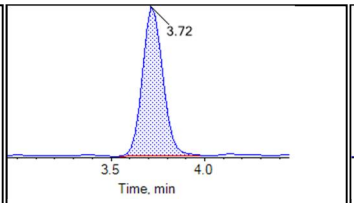

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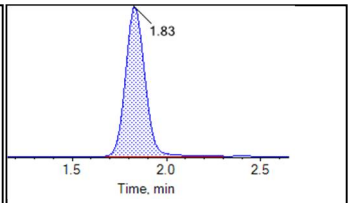

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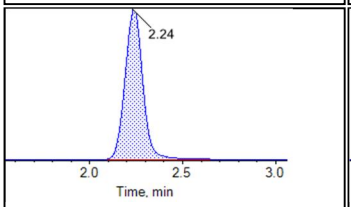
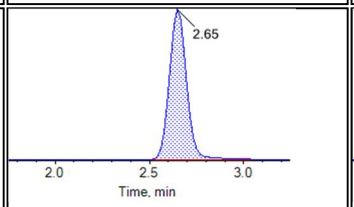
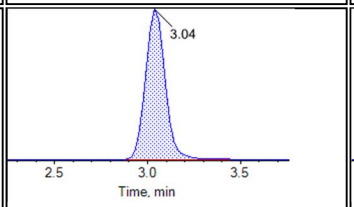


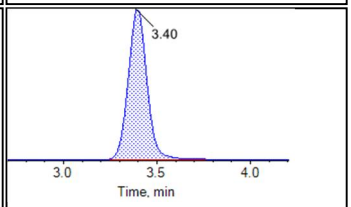
13C4-PFHpA



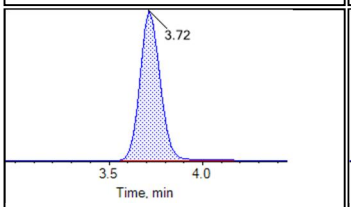
13C8-PFOA



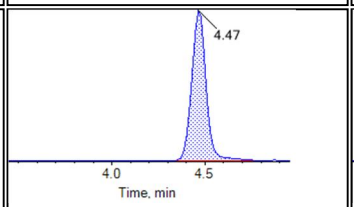
13C9-PFNA



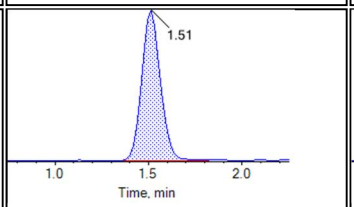
13C6-PFDA



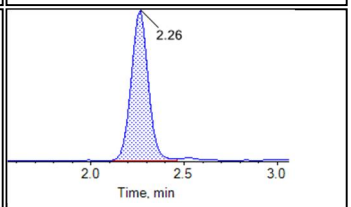
13C7-PFUnA



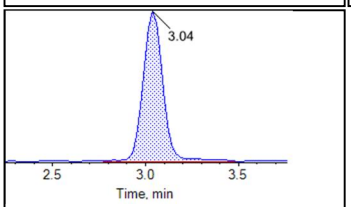
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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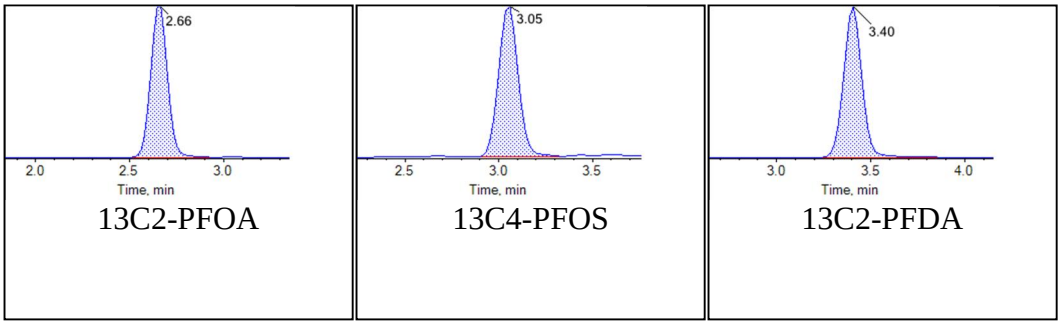
Printed: 22/10/2018 1:41:16 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:21 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8330-FS-D(7) | **Injection Vial** | 29 |
| **Sample ID** | VC-PM323-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:31:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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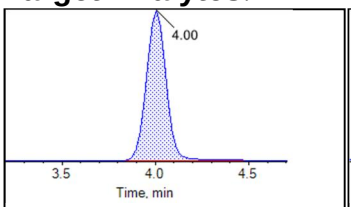

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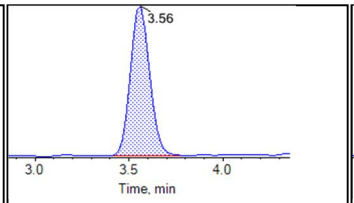

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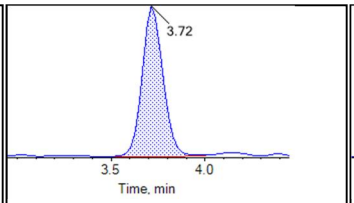

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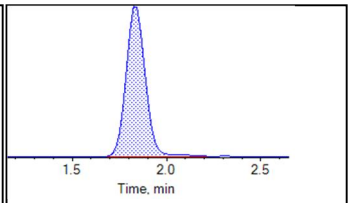

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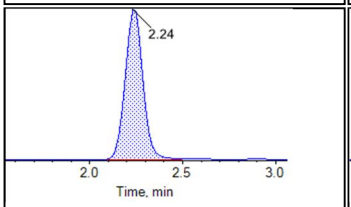
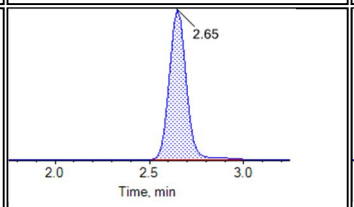


13C4-PFHpA



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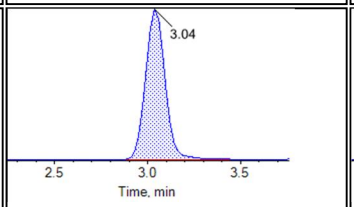

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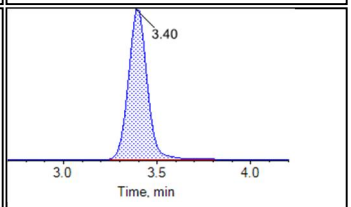
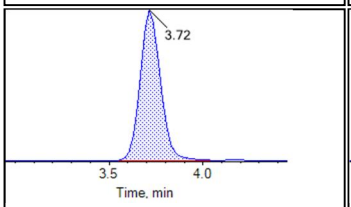
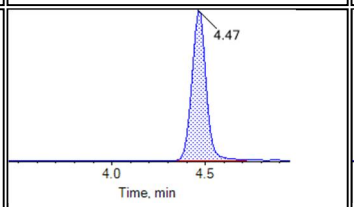


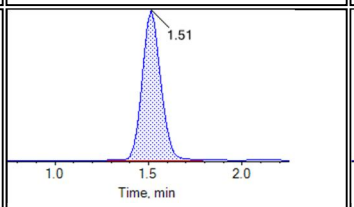
13C6-PFDA



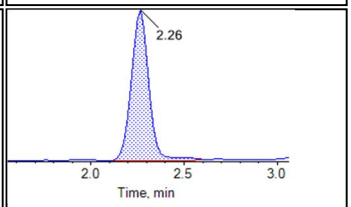
13C7-PFUnA



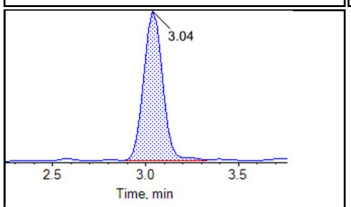
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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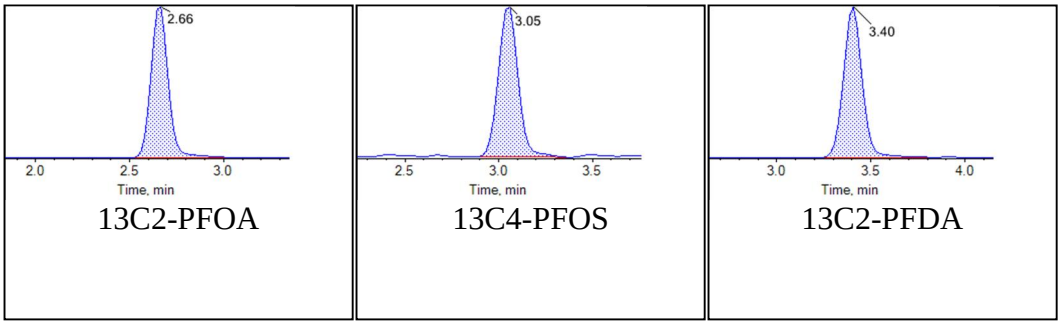
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:26 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS(0) | **Injection Vial** | 30 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T08:42:06 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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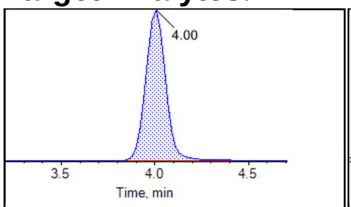

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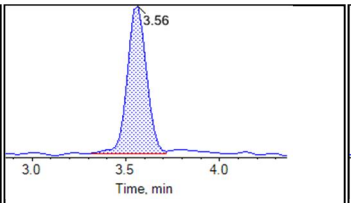

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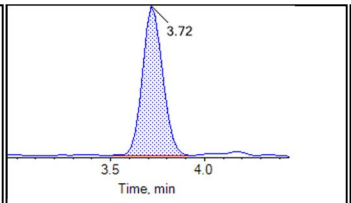
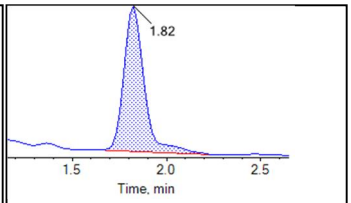


d5-EtFOSAA



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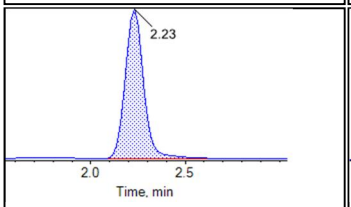

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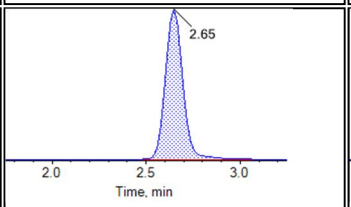

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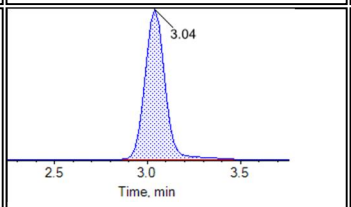

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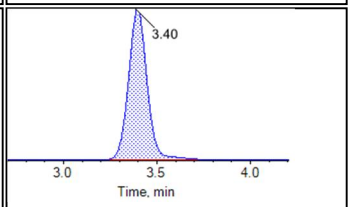

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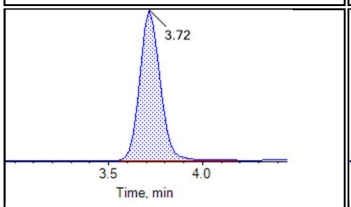

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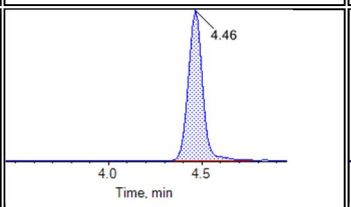

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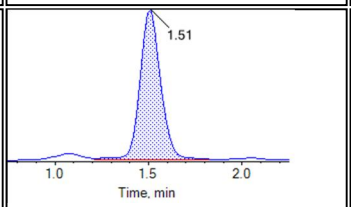

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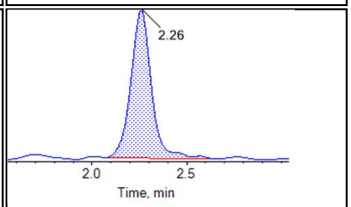
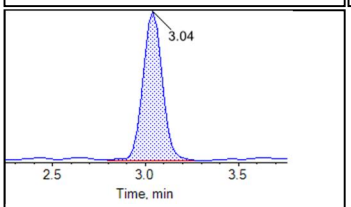


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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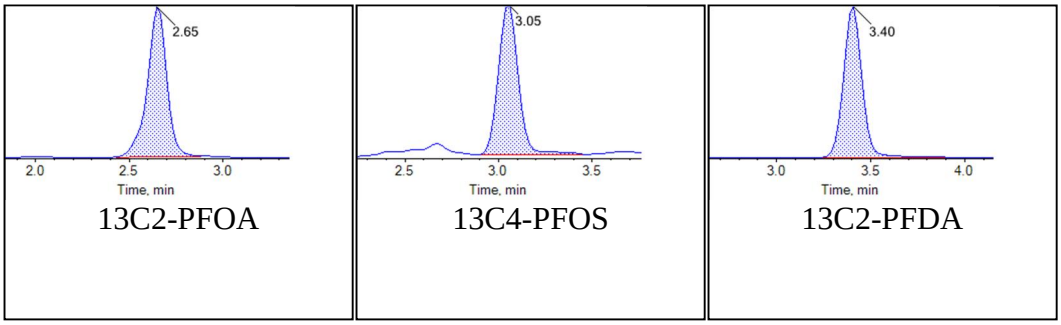

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Chromatogram Report

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Printed: 22/10/2018 1:41:36 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(5) | **Injection Vial** | 32 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:03:51 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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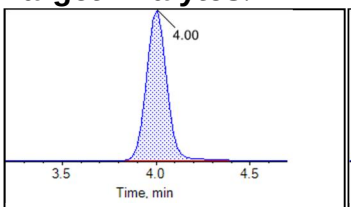

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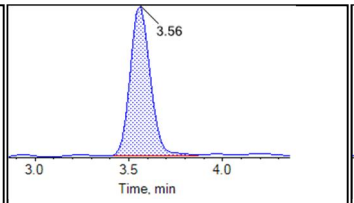
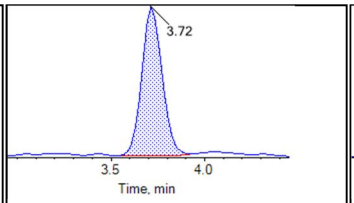


d3-MeFOSAA



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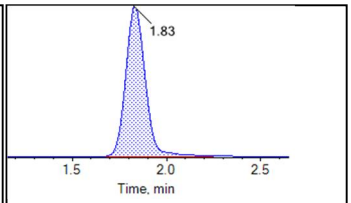

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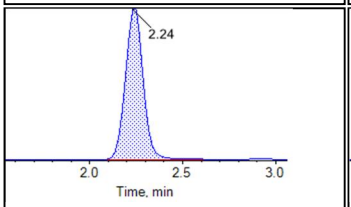

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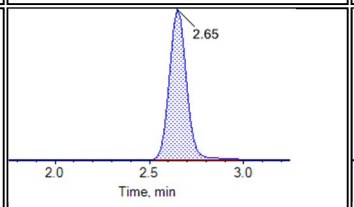

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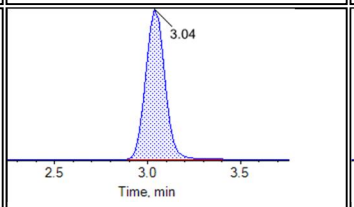

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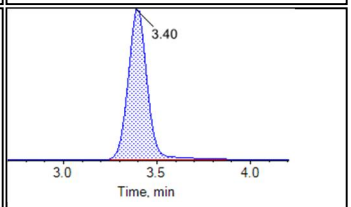

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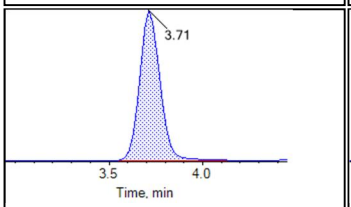
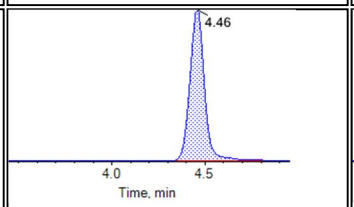


13C7-PFUnA



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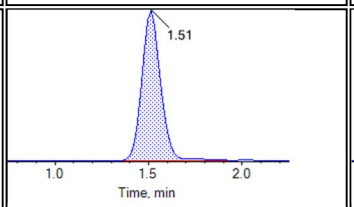

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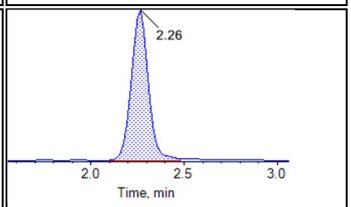
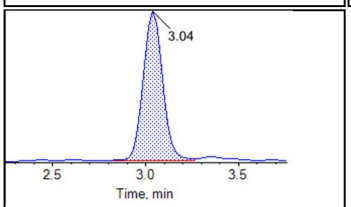


13C3-PFHxS



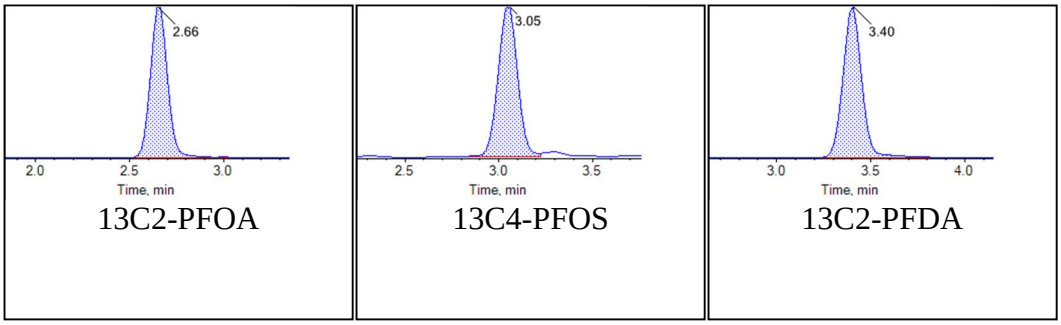
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:36 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:41 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8331-FS-D(7) | **Injection Vial** | 33 |
| **Sample ID** | VC-PM323-DW02P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:14:43 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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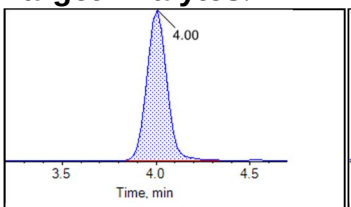

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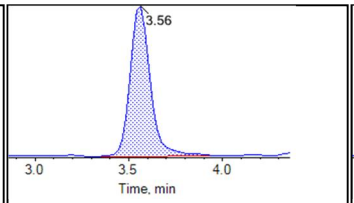
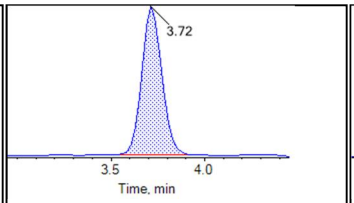


d3-MeFOSAA



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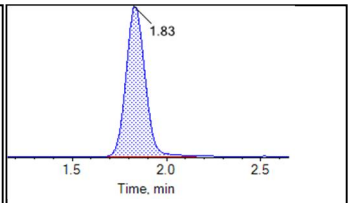

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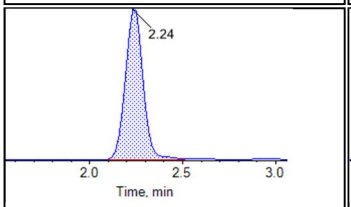

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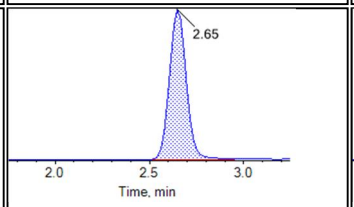
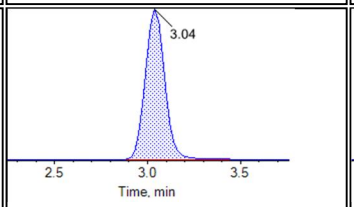


13C8-PFOA



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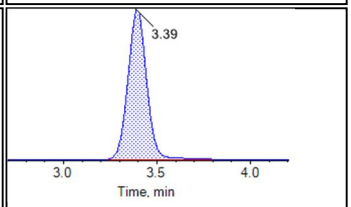
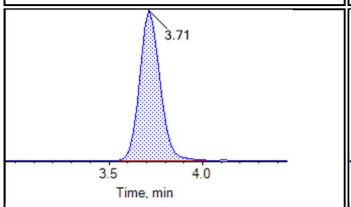


13C6-PFDA



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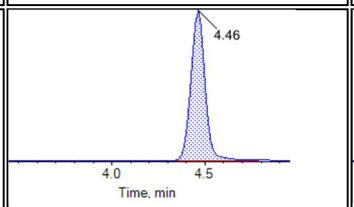

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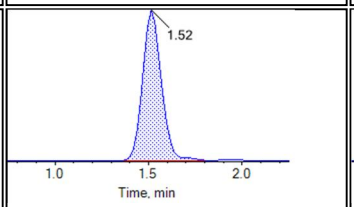

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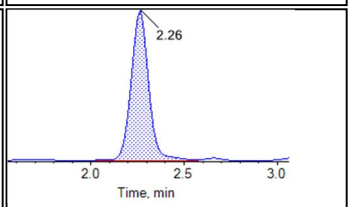
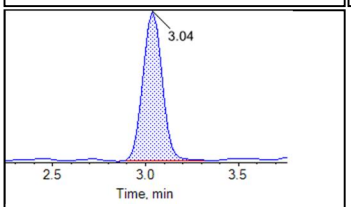


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
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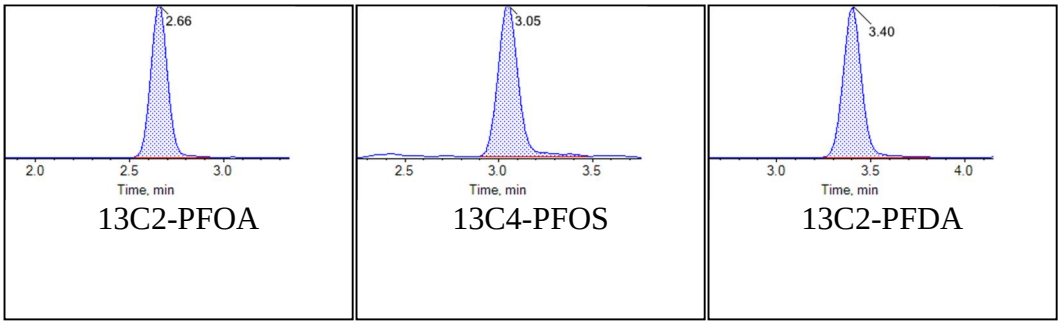
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 34 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:25:36 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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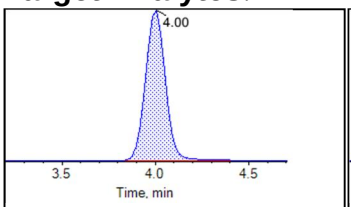

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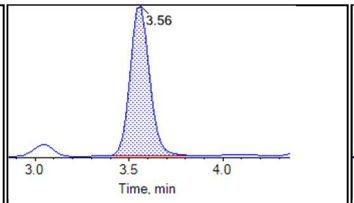

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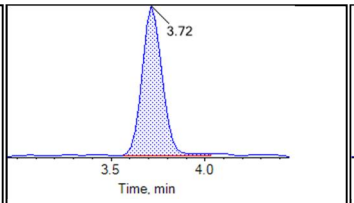

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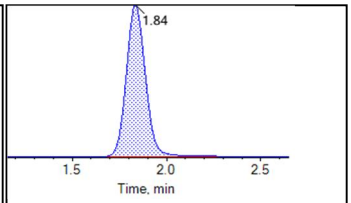
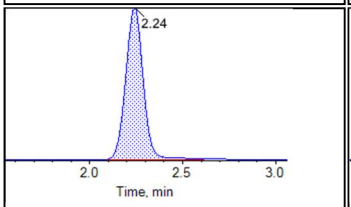


13C5-PFHxA



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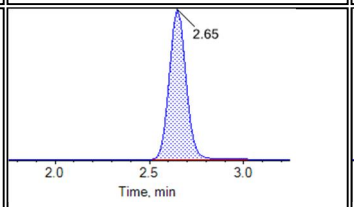

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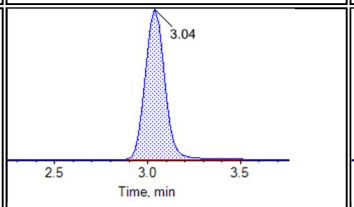

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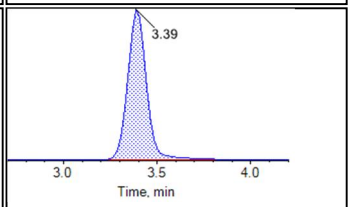
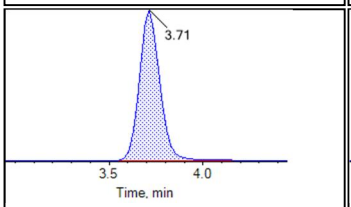
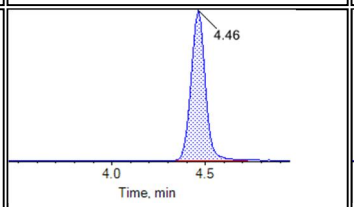


13C6-PFDA



13C7-PFUnA



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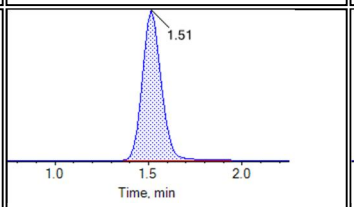

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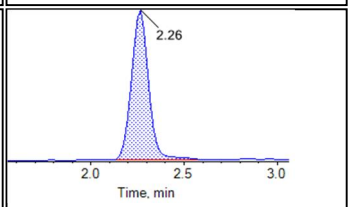

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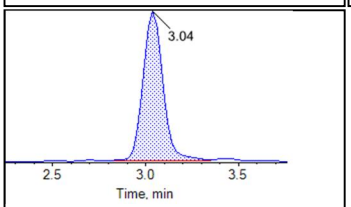

13C8-PFOS

BATTELLE

Chromatogram Report

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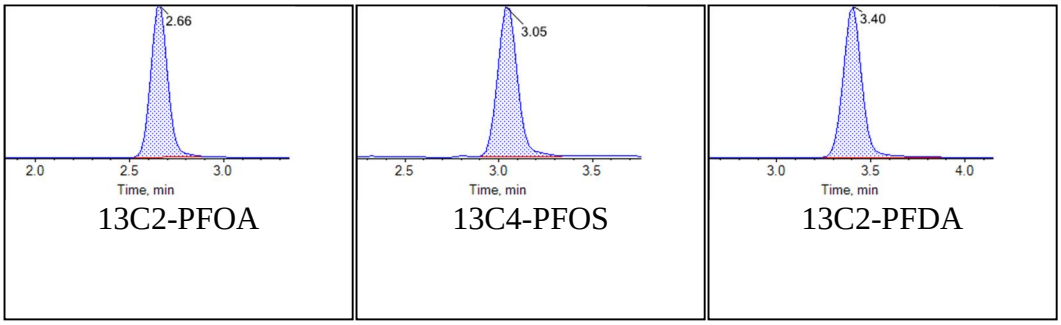
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:55 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS(0) | **Injection Vial** | 36 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:47:21 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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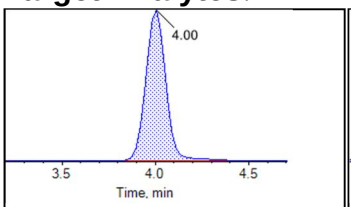

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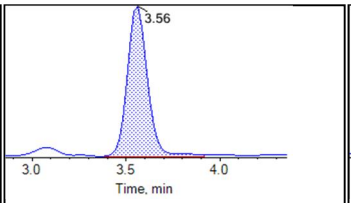

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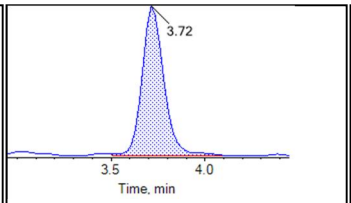

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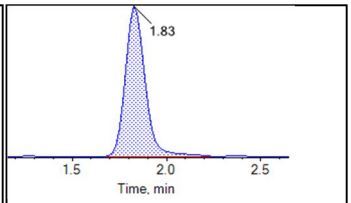

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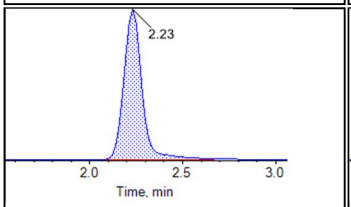

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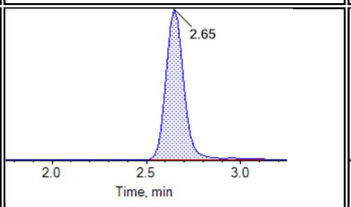

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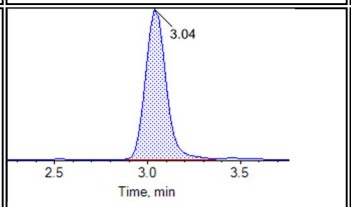
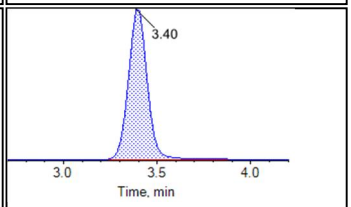
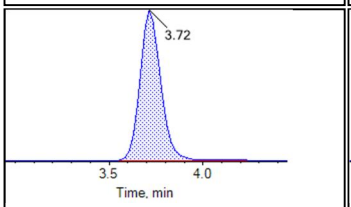


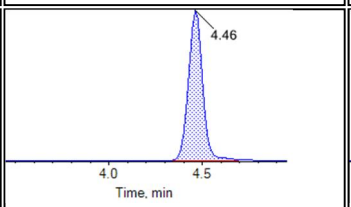
13C9-PFNA



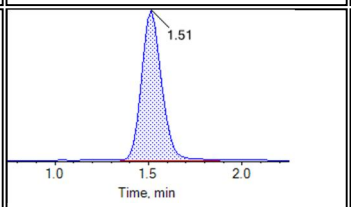
13C6-PFDA



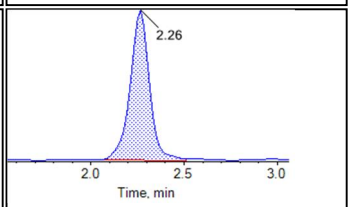
13C7-PFUnA



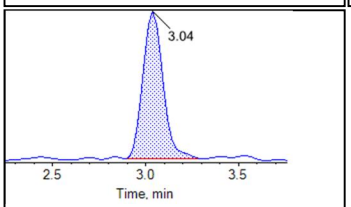
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

BATTELLE

Chromatogram Report

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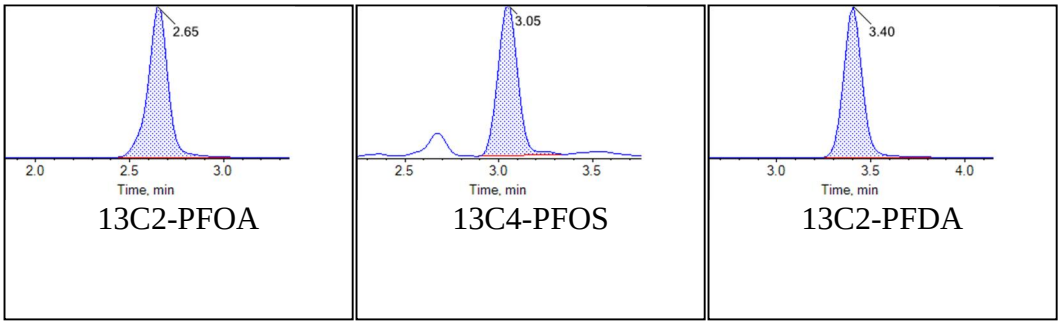
Printed: 22/10/2018 1:41:55 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:41:59 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 37 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T09:58:14 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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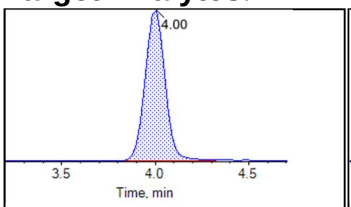

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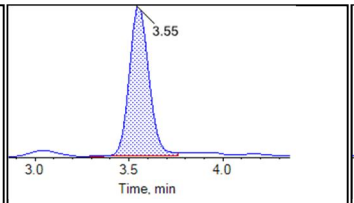

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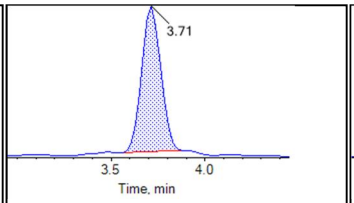

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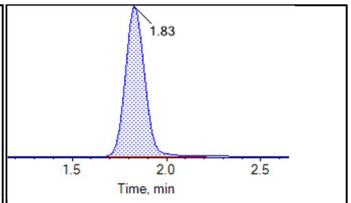

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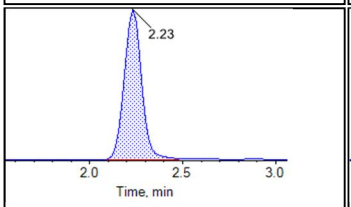

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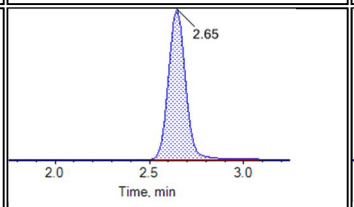
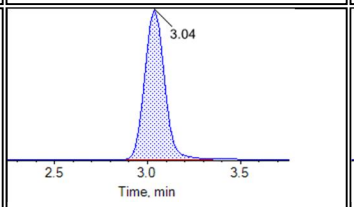
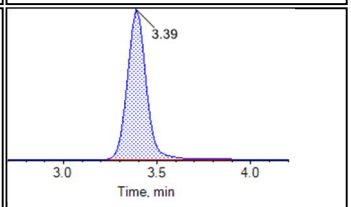


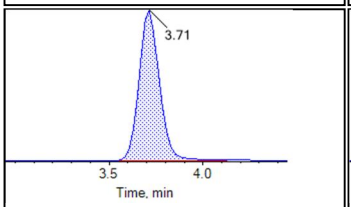
13C8-PFOA



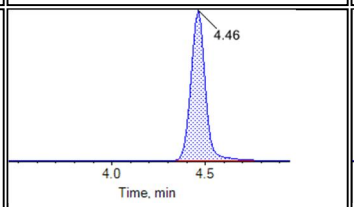
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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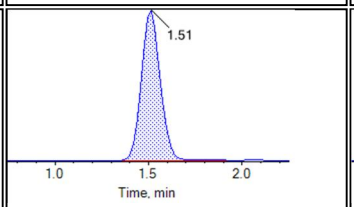

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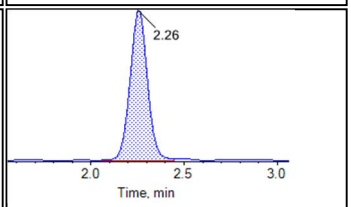
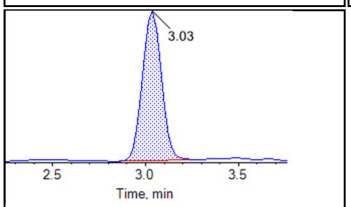


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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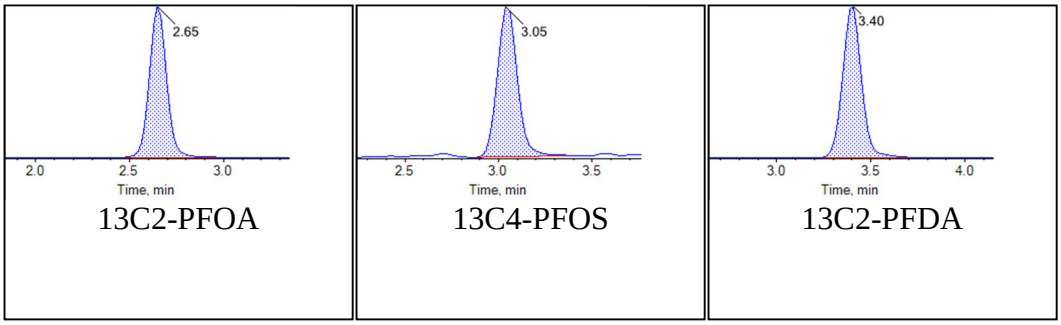
Printed: 22/10/2018 1:41:59 PM

## Internal Standards:



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(5) | **Injection Vial** | 38 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:09:08 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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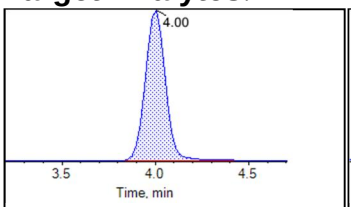

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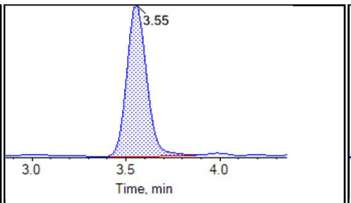

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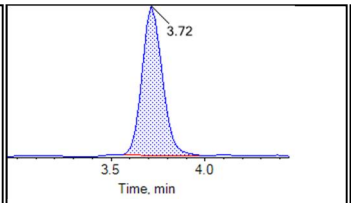

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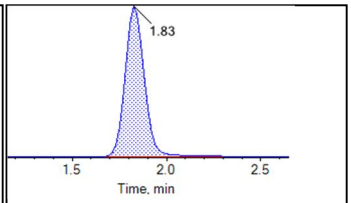

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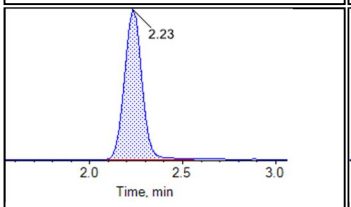
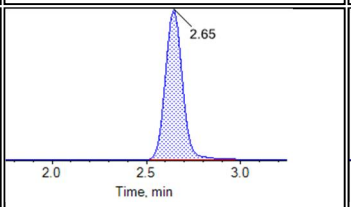
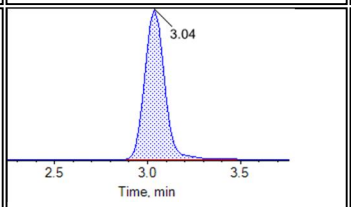


13C4-PFHpA



13C8-PFOA



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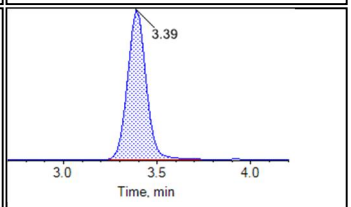
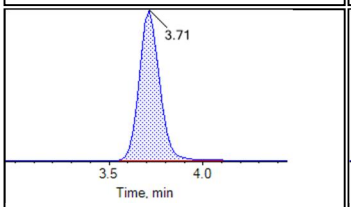
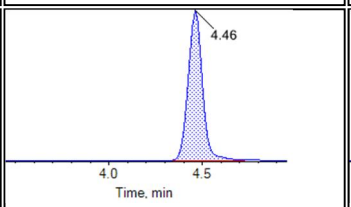


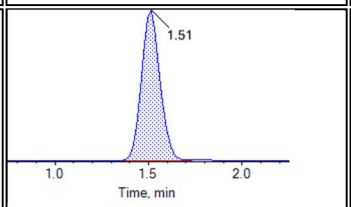
13C6-PFDA



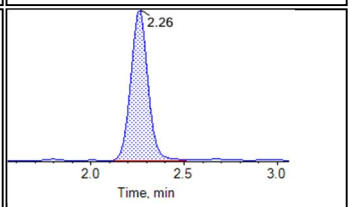
13C7-PFUnA



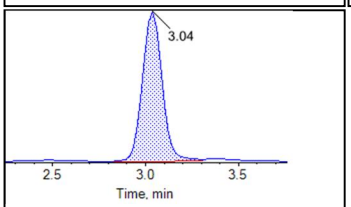
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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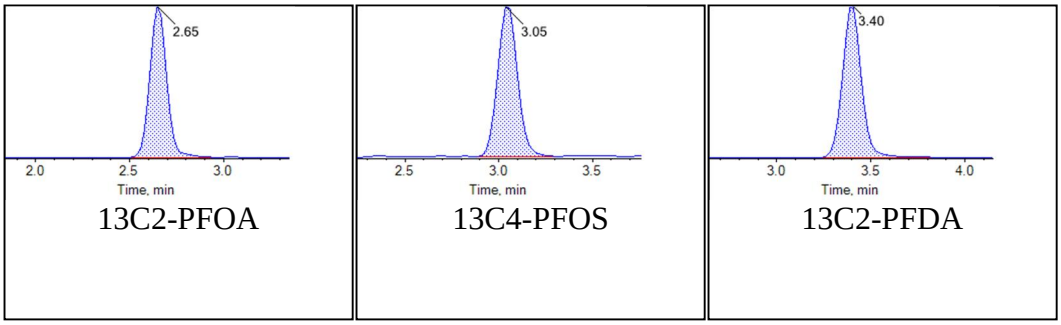

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Chromatogram Report

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Printed: 22/10/2018 1:42:07 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(7) | **Injection Vial** | 39 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:20:00 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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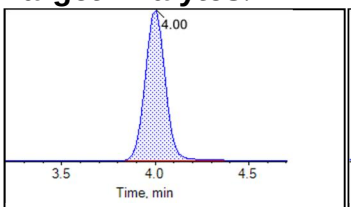
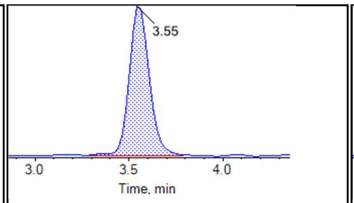


13C2-PFDoA



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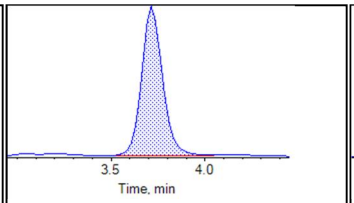
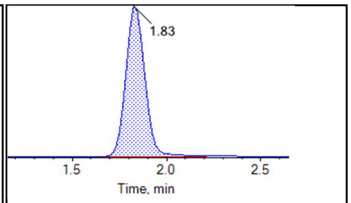


d5-EtFOSAA



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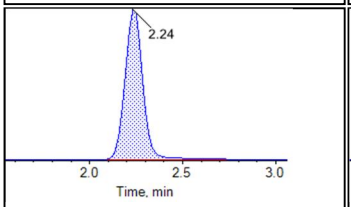

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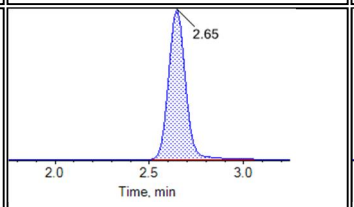

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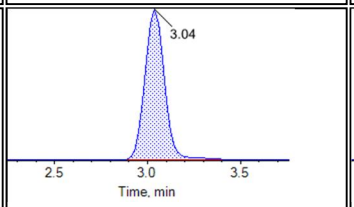

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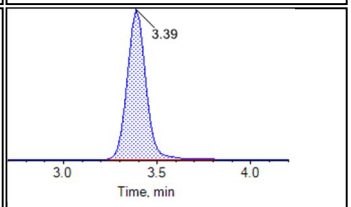

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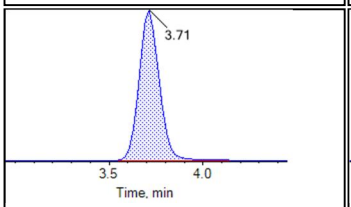

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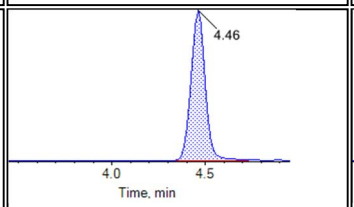

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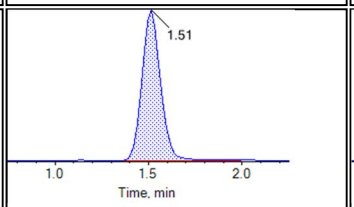

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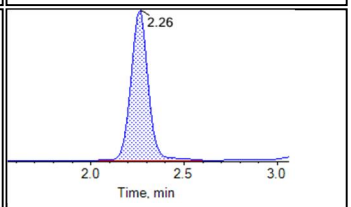

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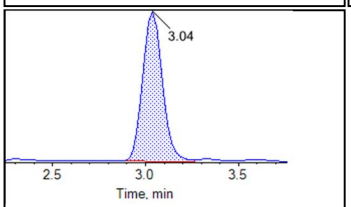

13C8-PFOS

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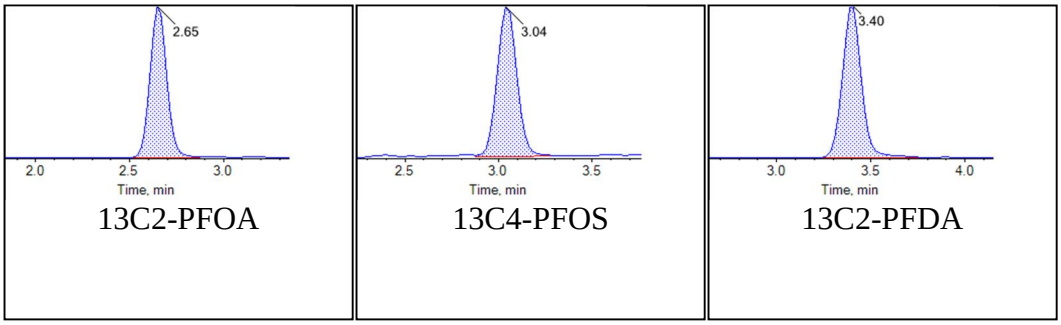
**Internal Standards:**



BATTELLE

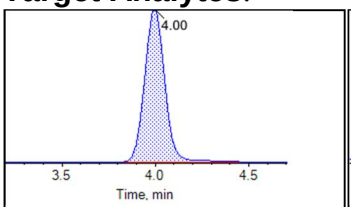
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:11 PM

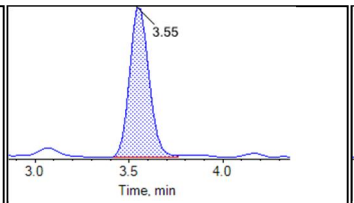
| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 40 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:30:53 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

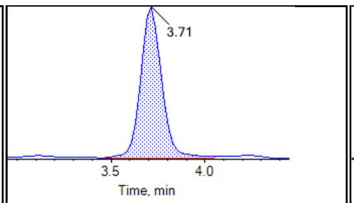
### Target Analytes:



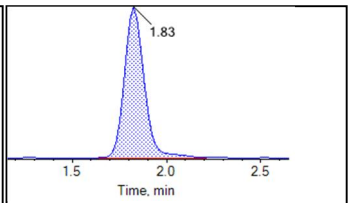
13C2-PFDoA



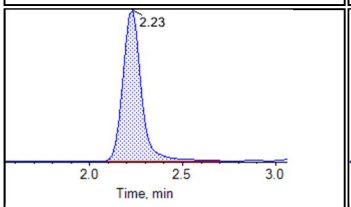
d3-MeFOSAA



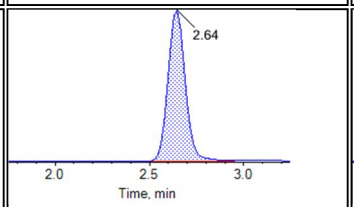
d5-EtFOSAA



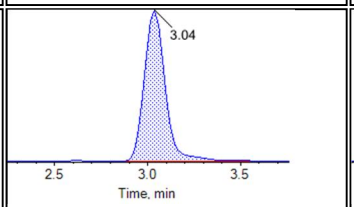
13C5-PFHxA



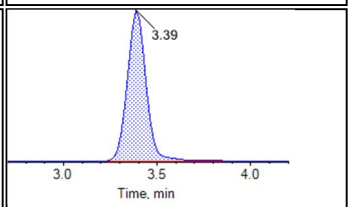
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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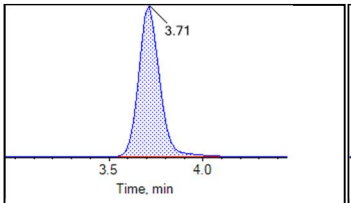
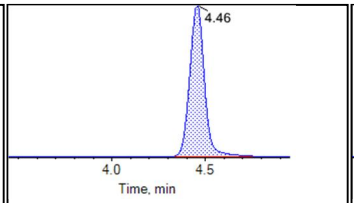
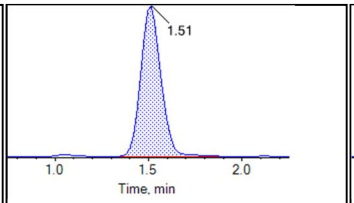


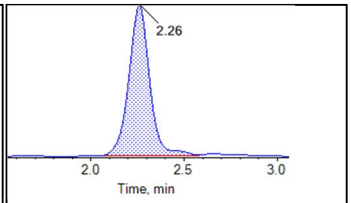

13C7-PFUnA



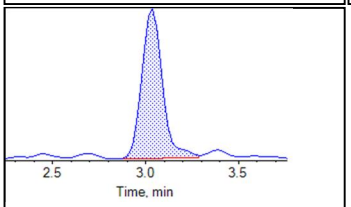

13C2-PFTeDA




13C3-PFBS

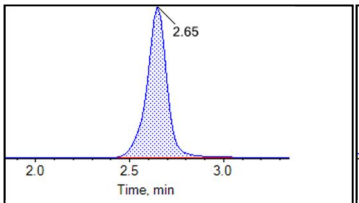



13C3-PFHxS

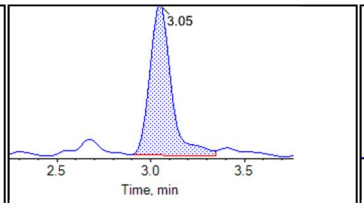



13C8-PFOS

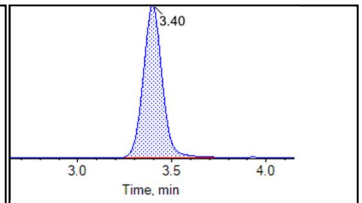
## Internal Standards:




13C2-PFOA




13C4-PFOS




13C2-PFDA

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(5) | **Injection Vial** | 42 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T10:52:40 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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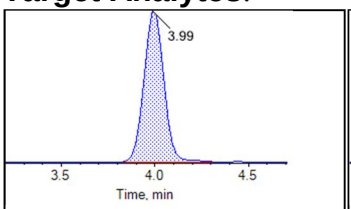
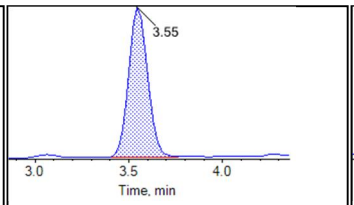
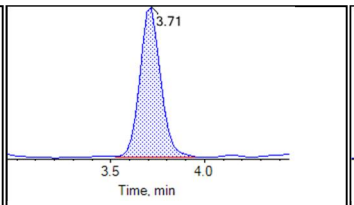


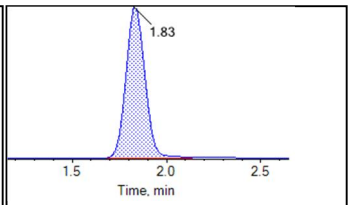
13C2-PFDoA



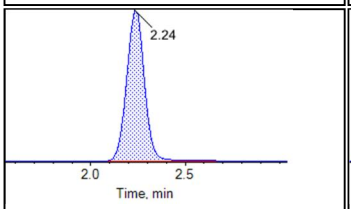
d3-MeFOSAA



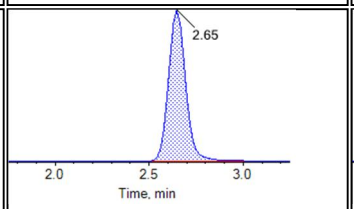
d5-EtFOSAA



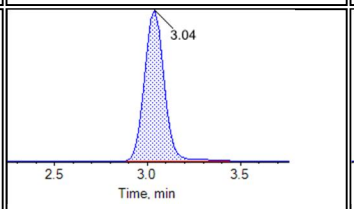
13C5-PFHxA



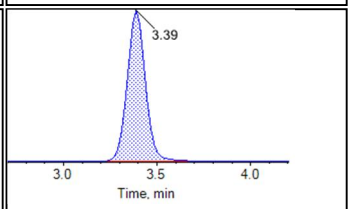
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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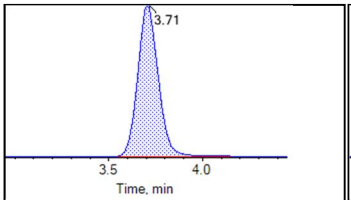
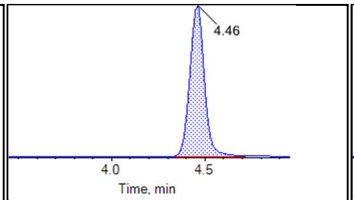
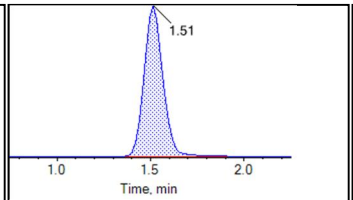
Printed: 22/10/2018 1:42:19 PM



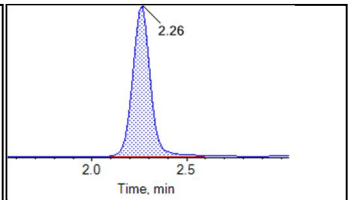
13C7-PFUnA



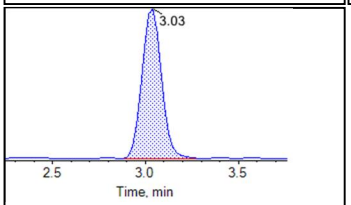
13C2-PFTeDA



13C3-PFBS

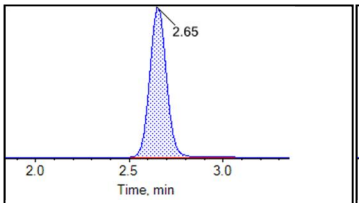


13C3-PFHxS

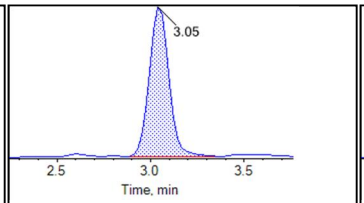


13C8-PFOS

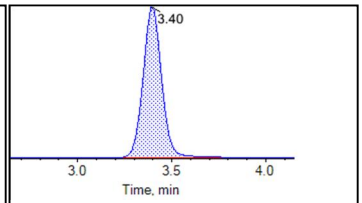
## Internal Standards:



13C2-PFOA



13C4-PFOS



13C2-PFDA

BATTELLE

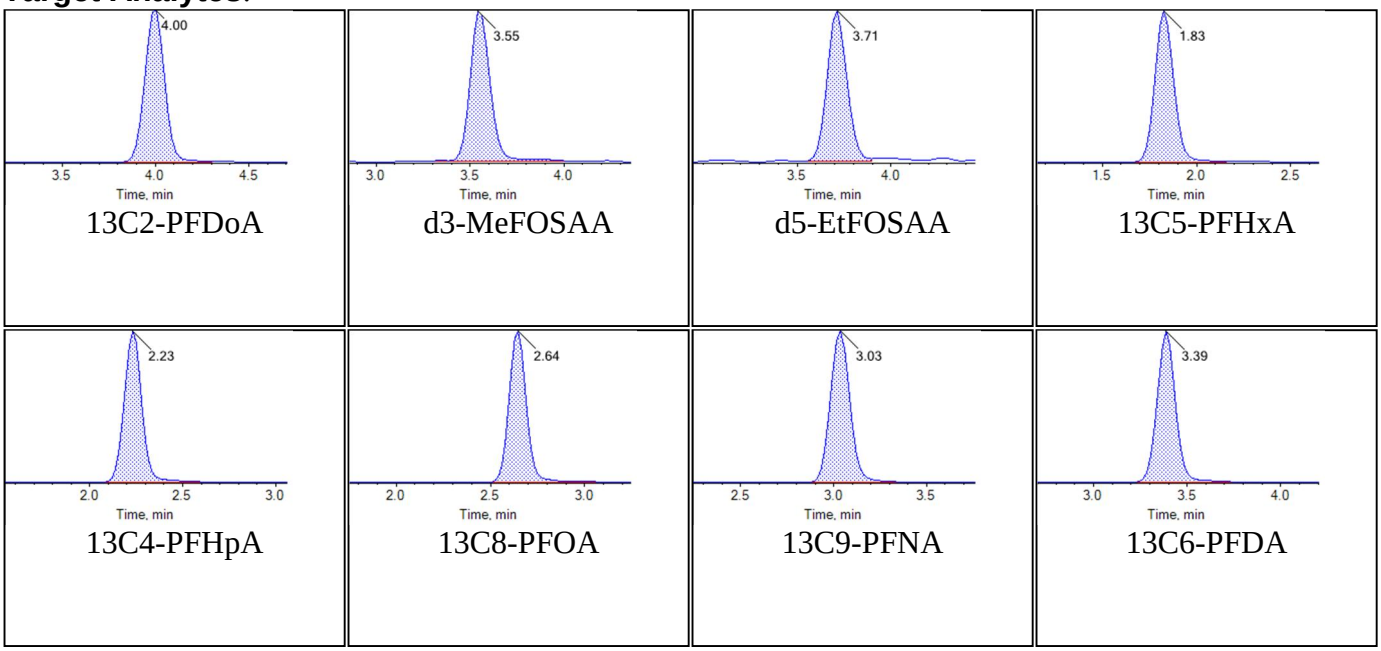
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:24 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(7) | **Injection Vial** | 43 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:03:32 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

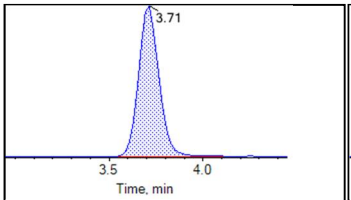
### Target Analytes:



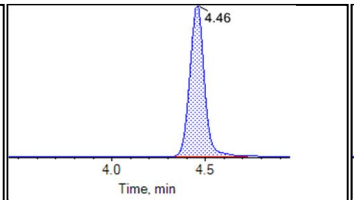
BATTELLE

Chromatogram Report

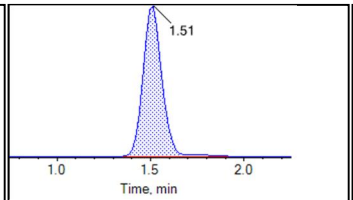
Created with Analyst Reporter
Printed: 22/10/2018 1:42:24 PM



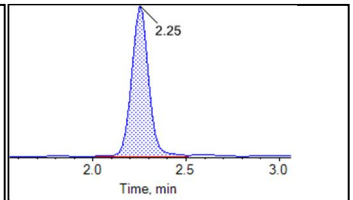
13C7-PFUnA



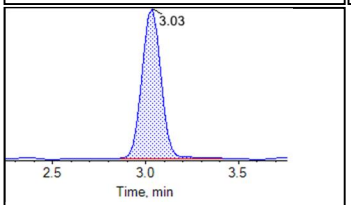
13C2-PFTeDA



13C3-PFBS

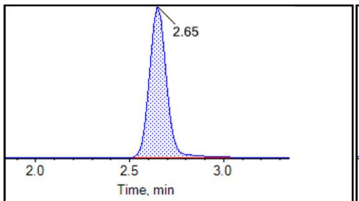


13C3-PFHxS

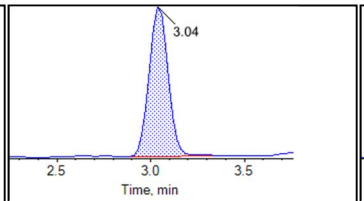


13C8-PFOS

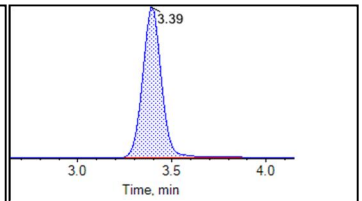
## Internal Standards:



13C2-PFOA



13C4-PFOS



13C2-PFDA

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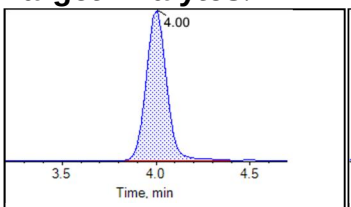
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:29 PM

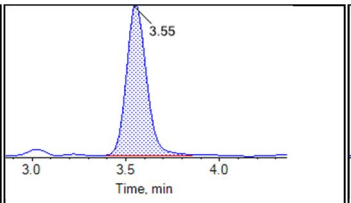
| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 44 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:14:26 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

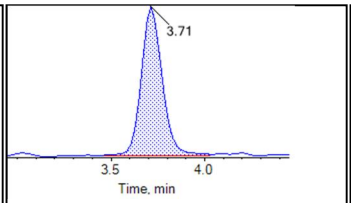
### Target Analytes:



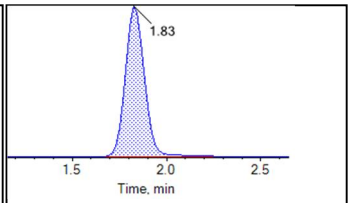
13C2-PFDoA



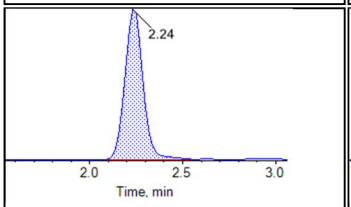
d3-MeFOSAA



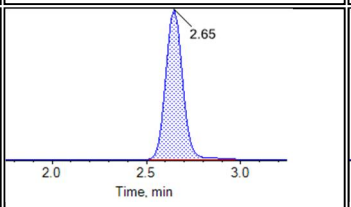
d5-EtFOSAA



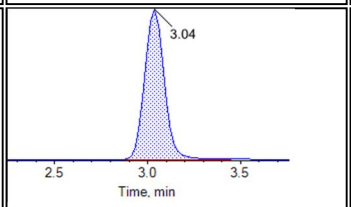
13C5-PFHxA



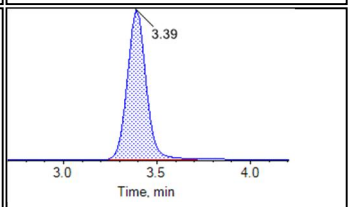
13C4-PFHpA



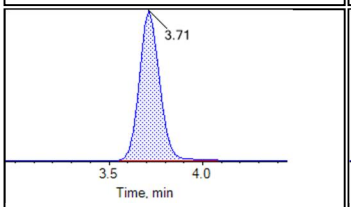
13C8-PFOA



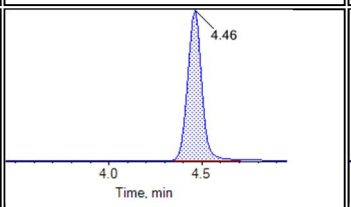
13C9-PFNA



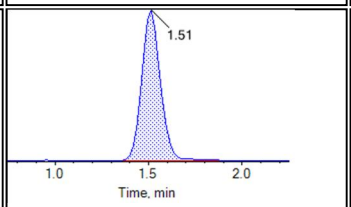
13C6-PFDA



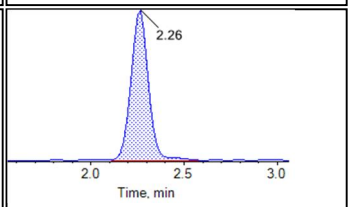
13C7-PFUnA



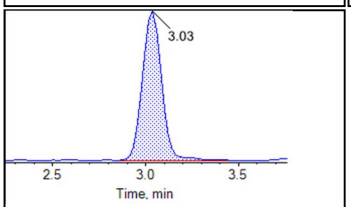
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



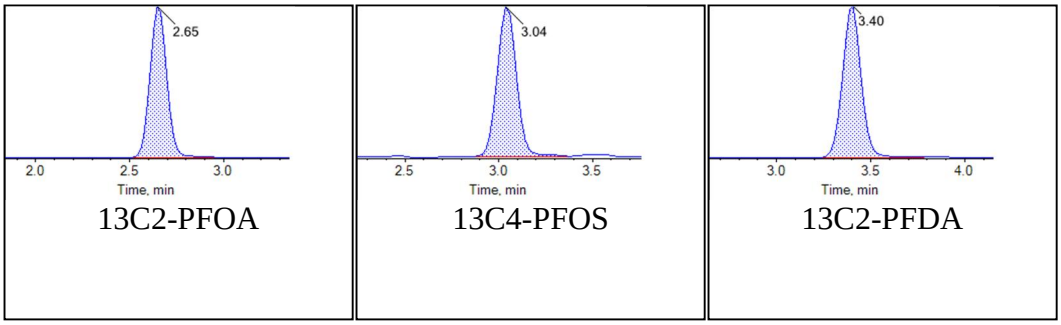
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:29 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:39 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS(0) | **Injection Vial** | 46 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T11:36:09 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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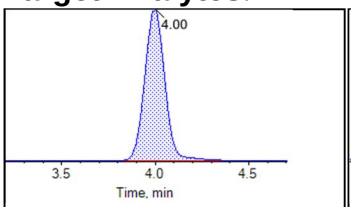
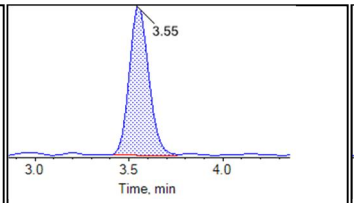
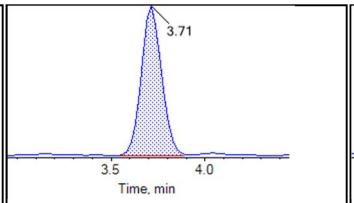


13C2-PFDoA



d3-MeFOSAA



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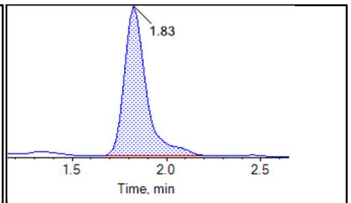
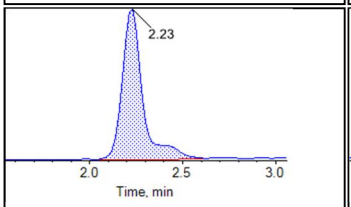
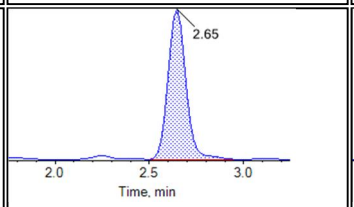


13C5-PFHxA



13C4-PFHpA



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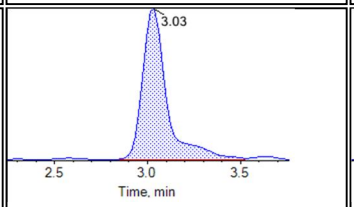
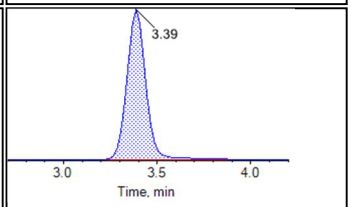
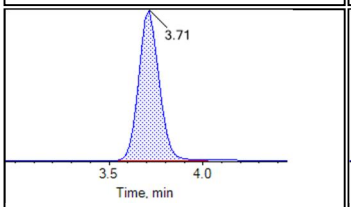


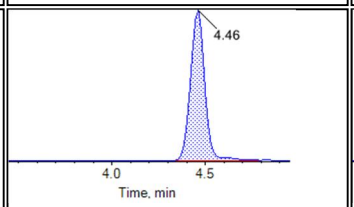
13C9-PFNA



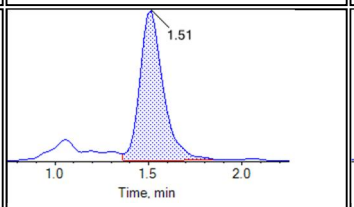
13C6-PFDA



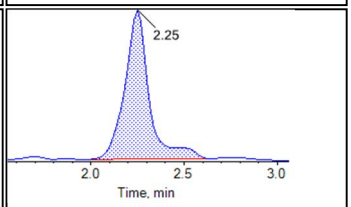
13C7-PFUnA



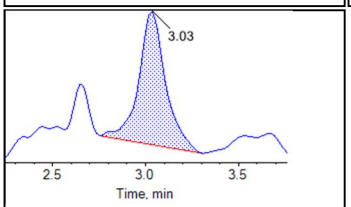
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

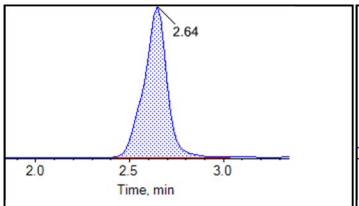


13C8-PFOS

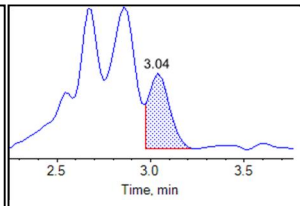
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:39 PM

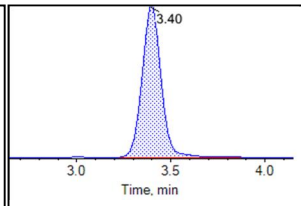
**Internal Standards:**




13C2-PFOA




13C4-PFOS




13C2-PFDA

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:55 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(7) | **Injection Vial** | 49 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:08:47 | **Data File** | 18-0580.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

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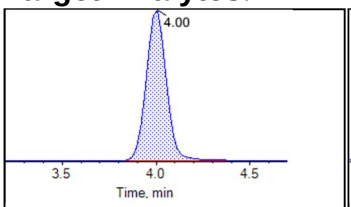

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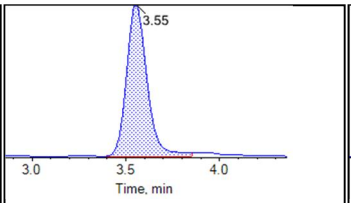
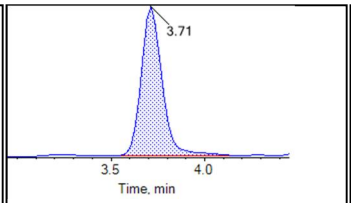


d3-MeFOSAA



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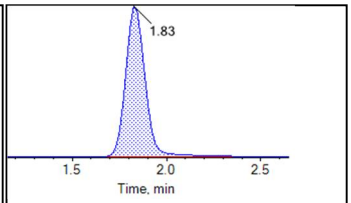

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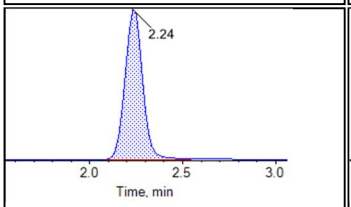

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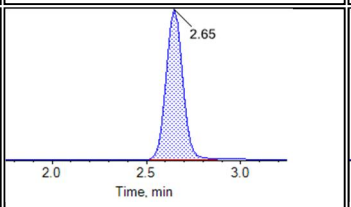
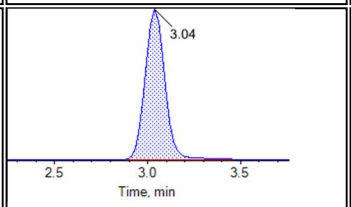
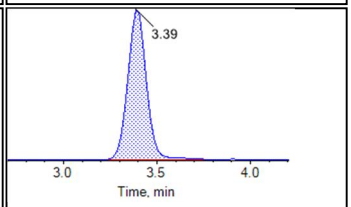


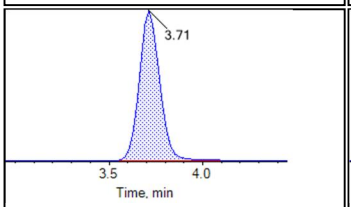
13C8-PFOA



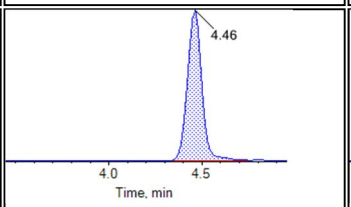
13C9-PFNA



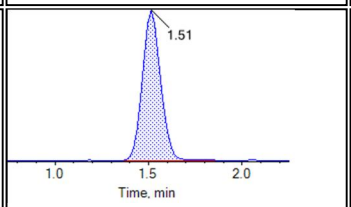
13C6-PFDA



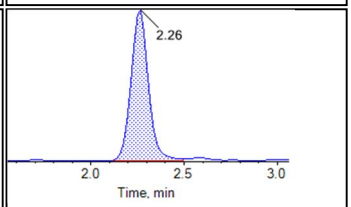
13C7-PFUnA



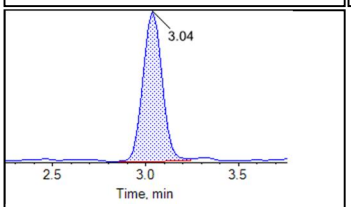
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

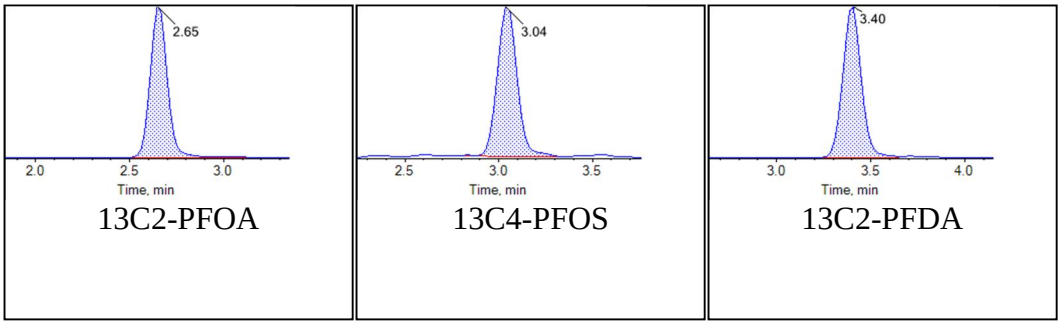


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:42:55 PM

**Internal Standards:**



BATTELLE

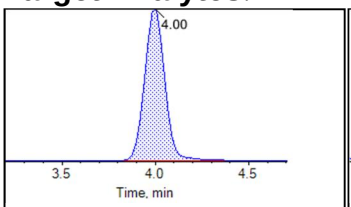
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:43:00 PM

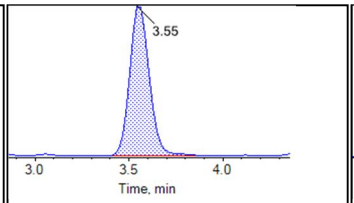
| | | | |
|---|---|---|---|
| **Sample Name** | KB75 CCV | **Injection Vial** | 1 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-06T12:30:32 | **Data File** | 18-0581_18-0584.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580_SIS |
| **Sample Comment** | | | |

## Chromatograms

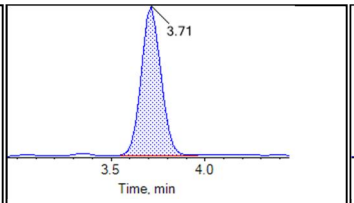
### Target Analytes:



13C2-PFDoA



d3-MeFOSAA



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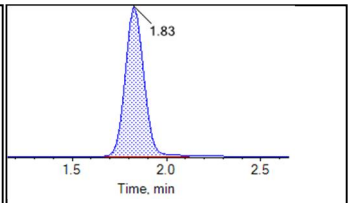

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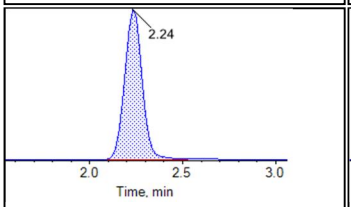

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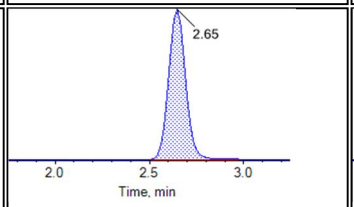

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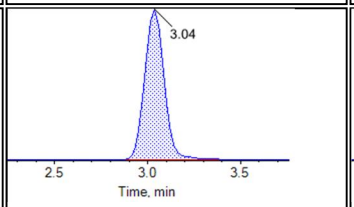
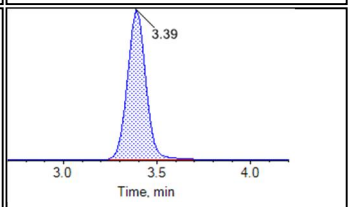


13C9-PFNA



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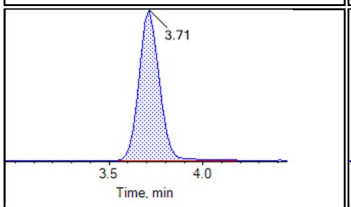
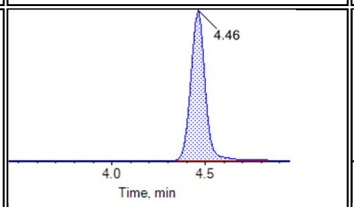
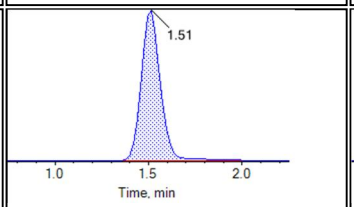


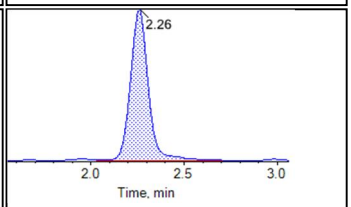
13C7-PFUnA



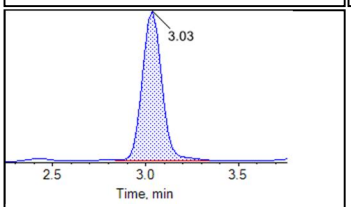
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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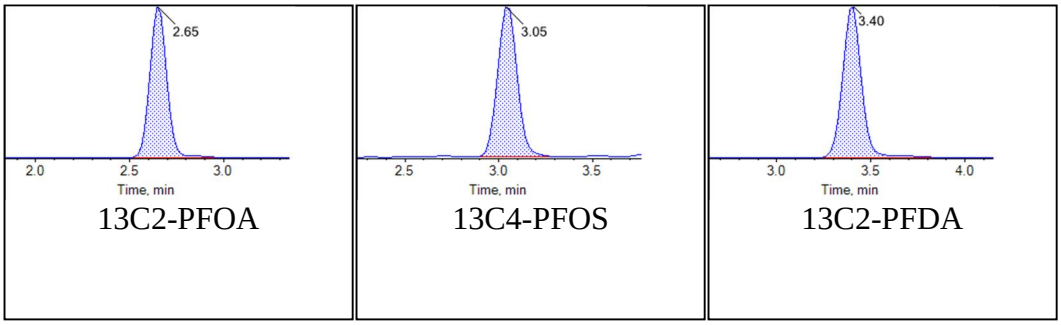
**Internal Standards:**



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Chromatogram Report

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Printed: 22/10/2018 1:54:57 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:40:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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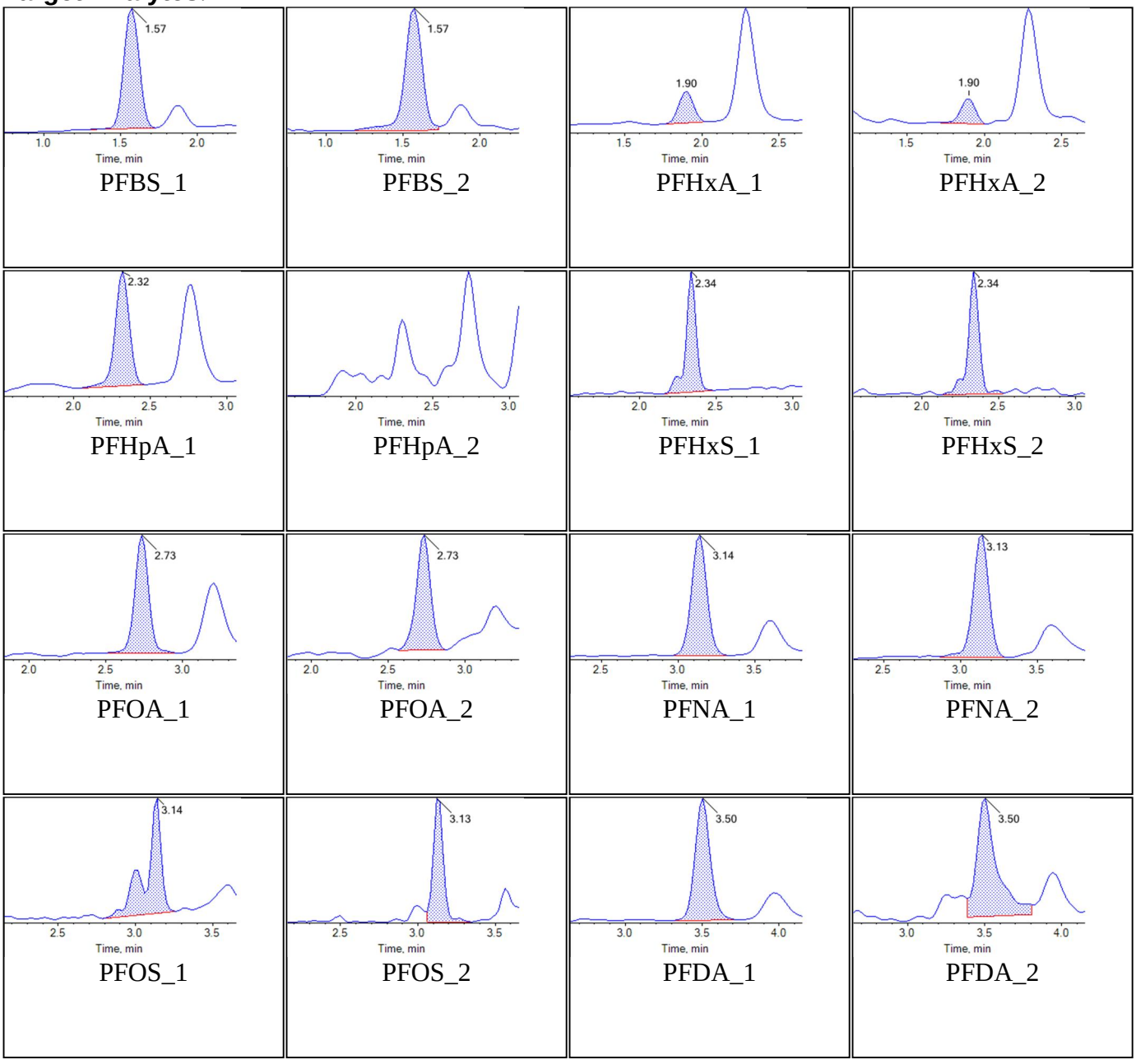

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Chromatogram Report

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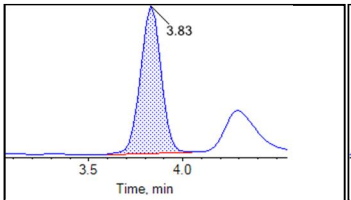

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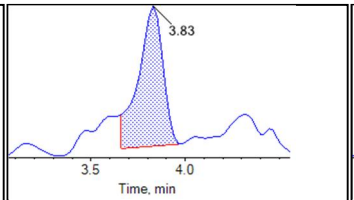

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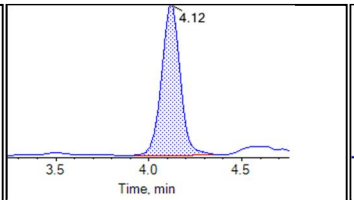

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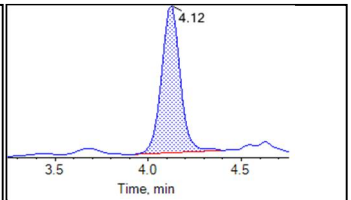

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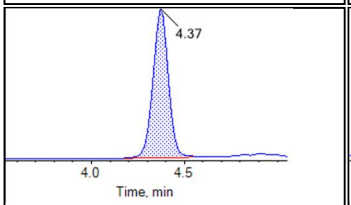
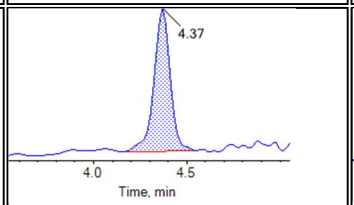


PFTrDA_1



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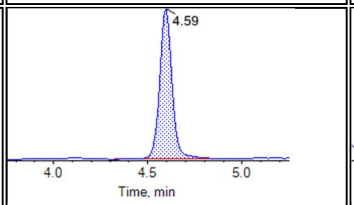

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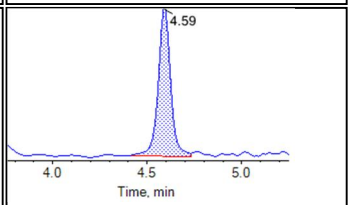

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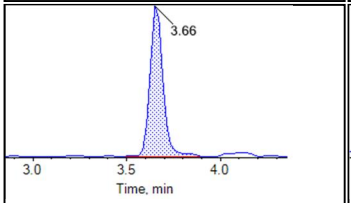
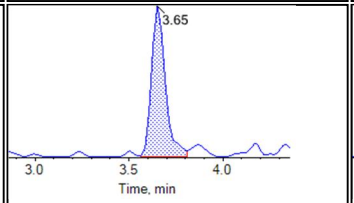


NMeFOSAA_1



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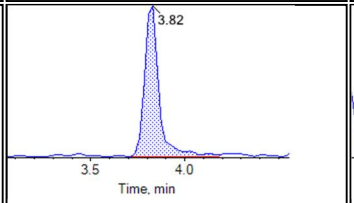

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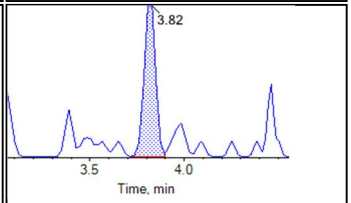

NEtFOSAA_2

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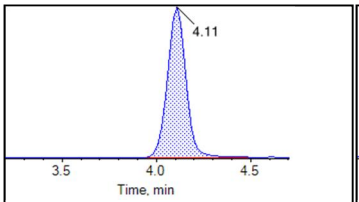
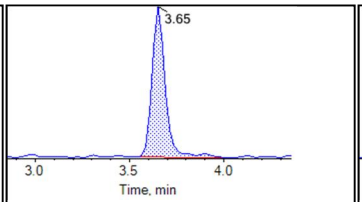


13C2-PFDoA



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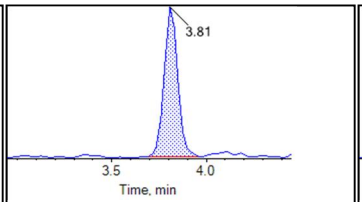
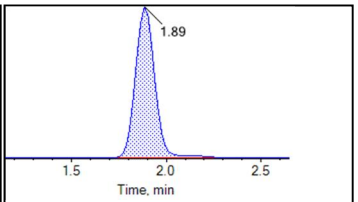
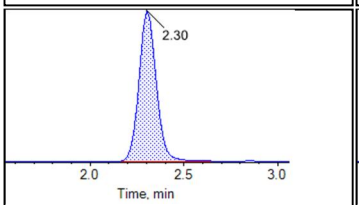


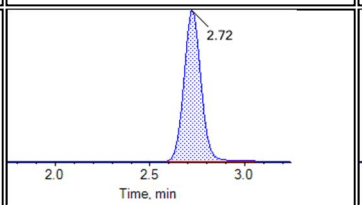
d5-EtFOSAA



13C5-PFHxA



13C4-PFHpA



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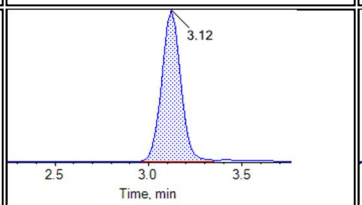
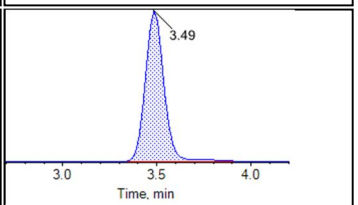


13C9-PFNA



13C6-PFDA

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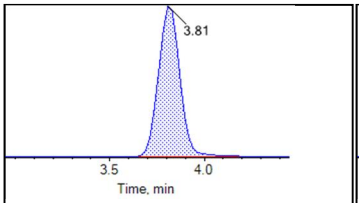


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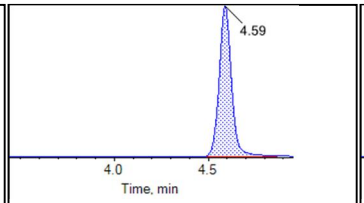


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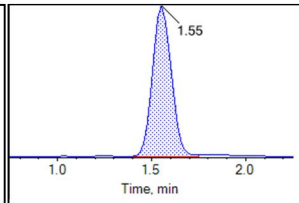


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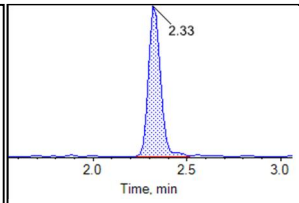


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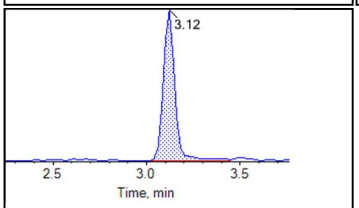


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:51:02 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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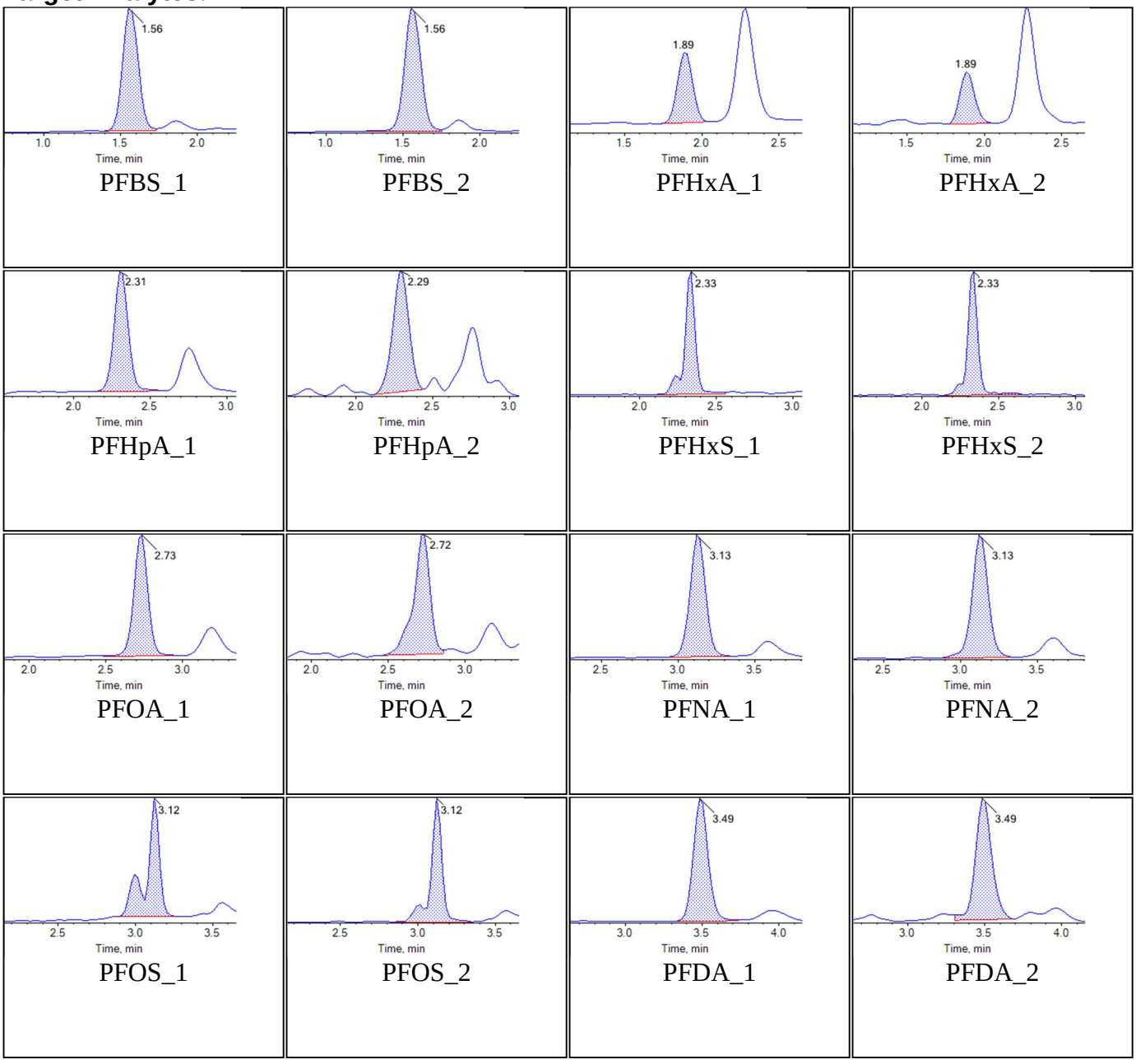

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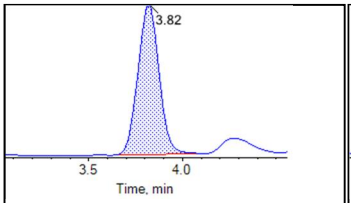

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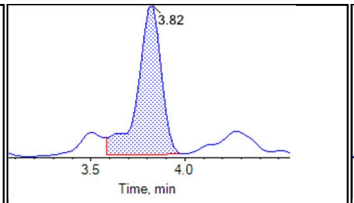

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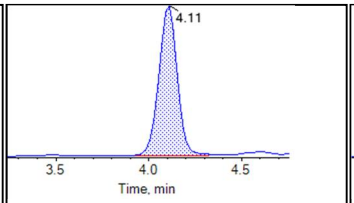
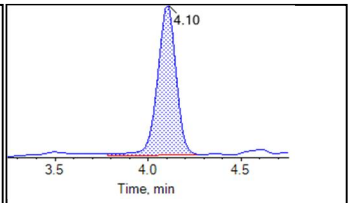
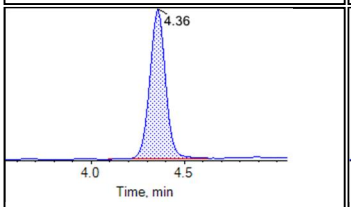


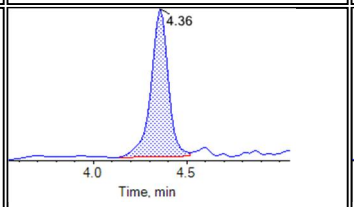
PFDoA_1



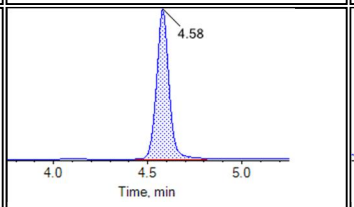
PFDoA_2



PFTrDA_1



PFTrDA_2



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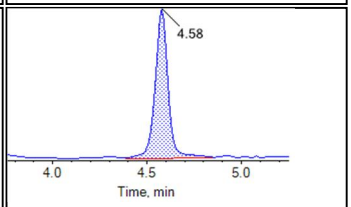

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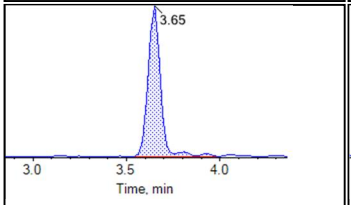

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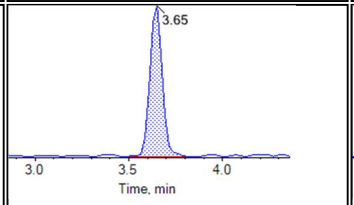

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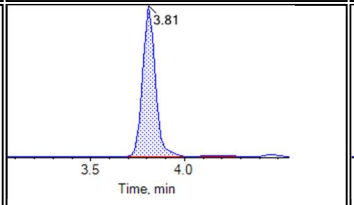

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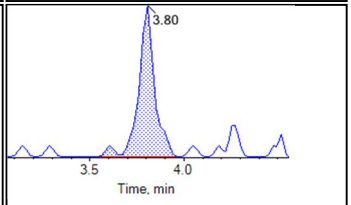

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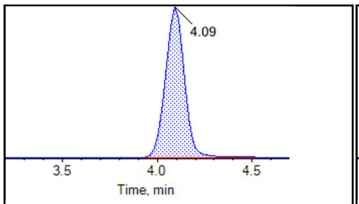

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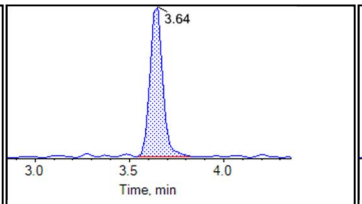
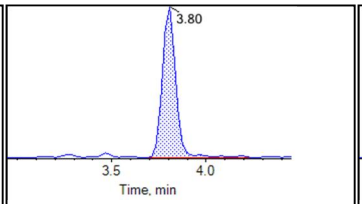
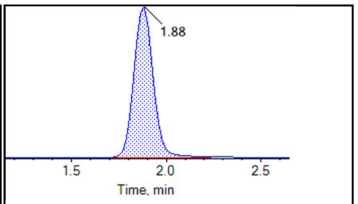


d3-MeFOSAA



d5-EtFOSAA



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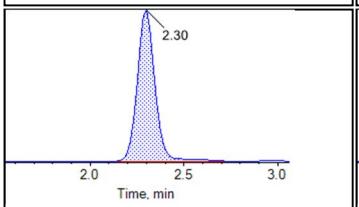

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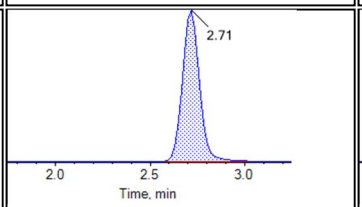

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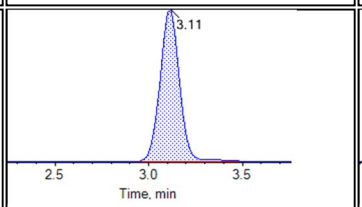

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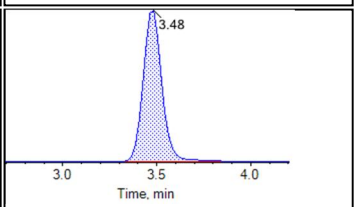

13C6-PFDA

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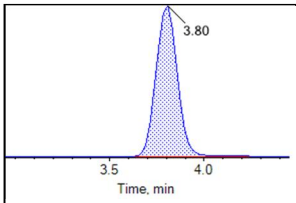
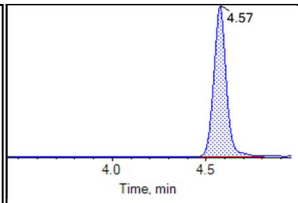
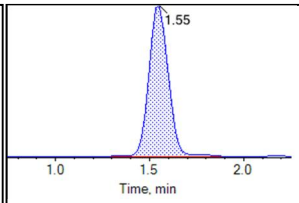


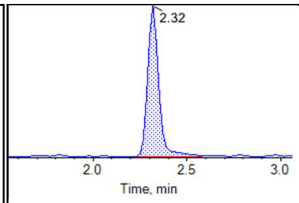

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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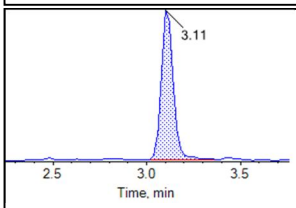


13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:01:53 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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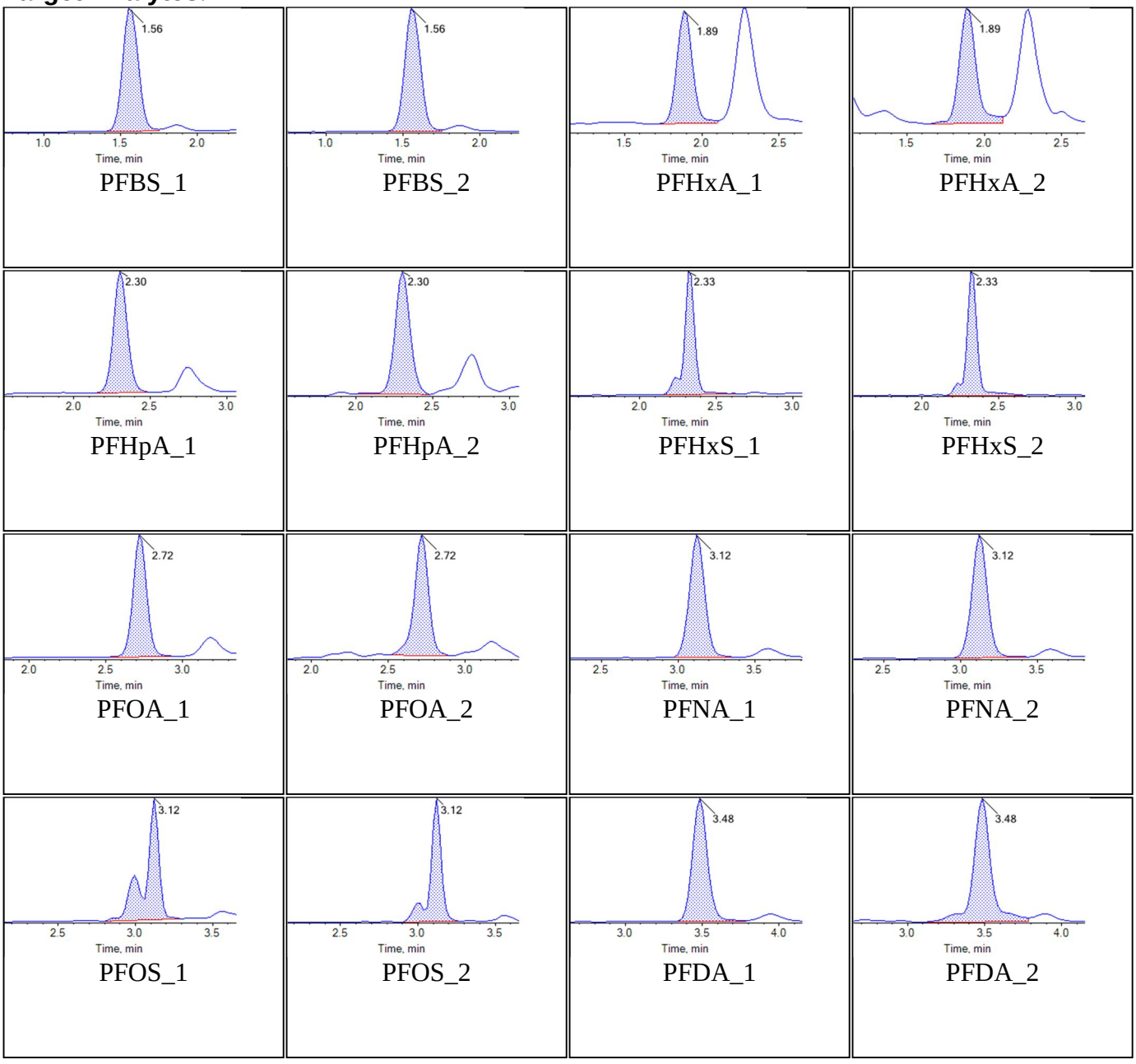

BATTELLE

Chromatogram Report

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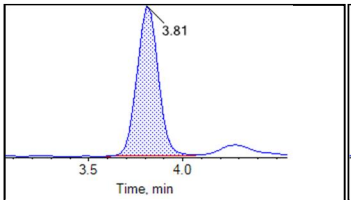

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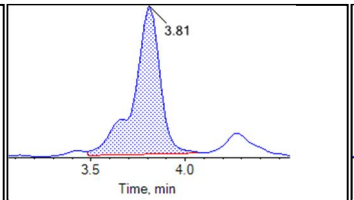

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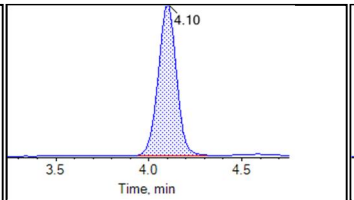
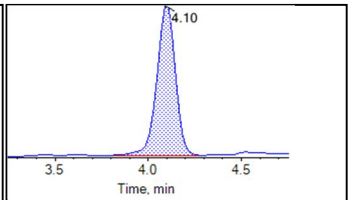


PFDoA_1



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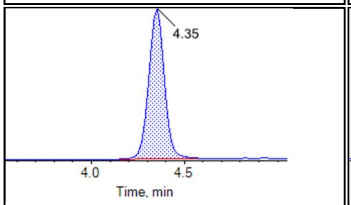

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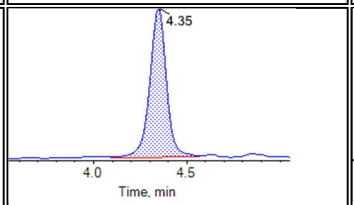

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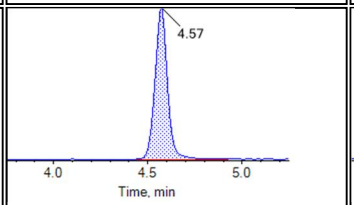

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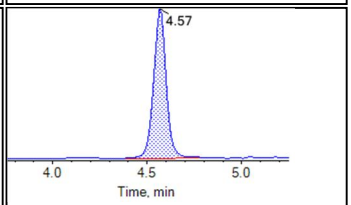

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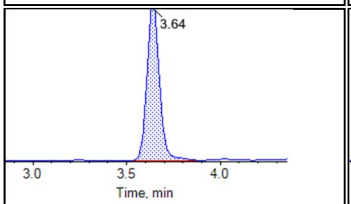

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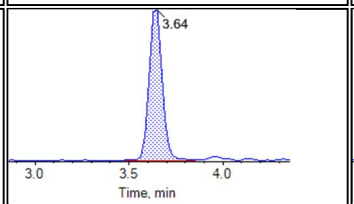

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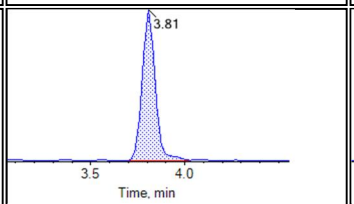

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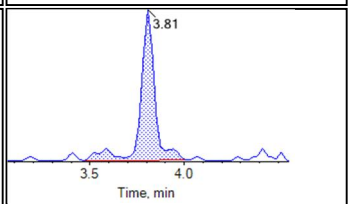

NEtFOSAA_2

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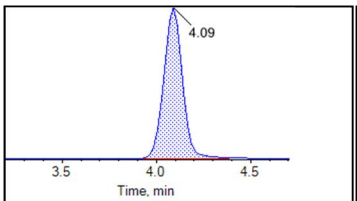
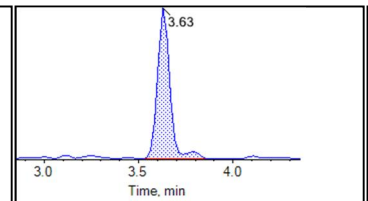


13C2-PFDoA



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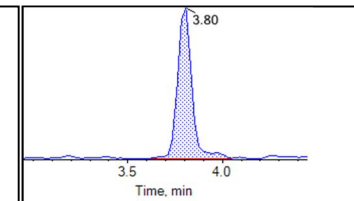
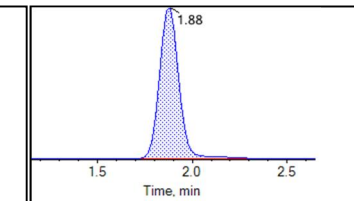
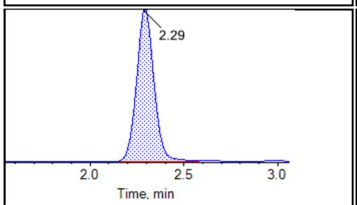


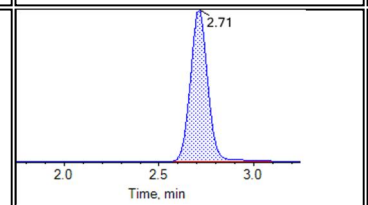
d5-EtFOSAA



13C5-PFHxA



13C4-PFHpA



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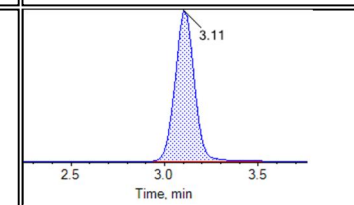
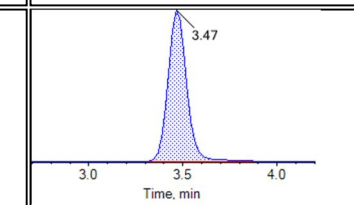


13C9-PFNA



13C6-PFDA

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Chromatogram Report

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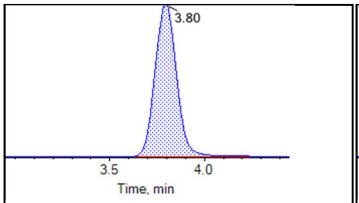
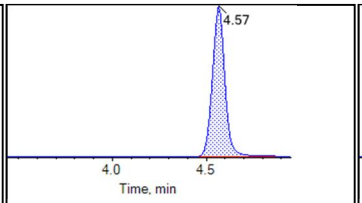



13C7-PFUnA

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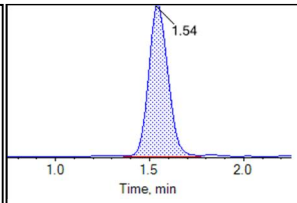
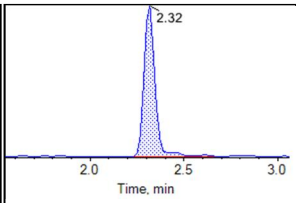



13C3-PFBS

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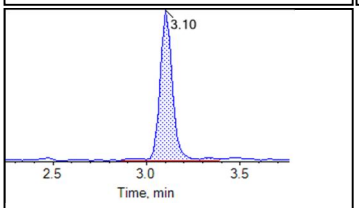


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:55:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:12:44 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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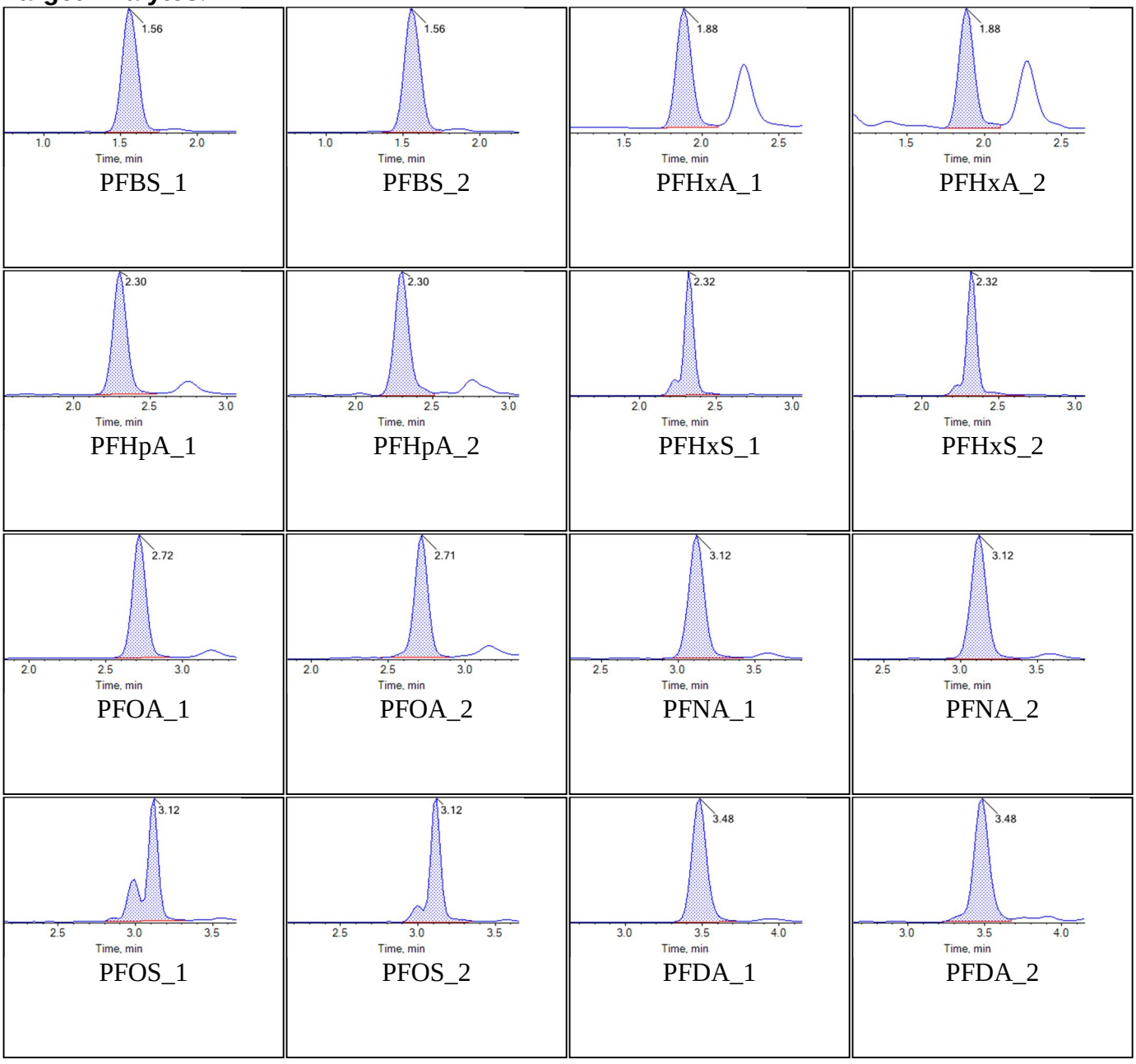

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Chromatogram Report

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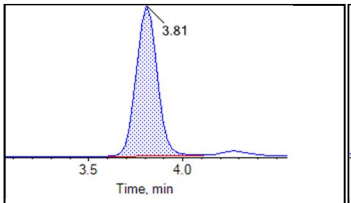

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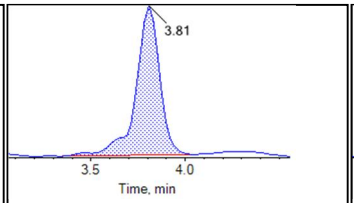

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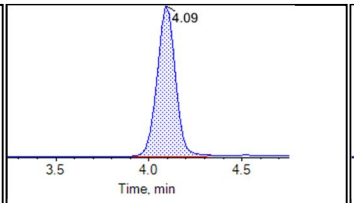

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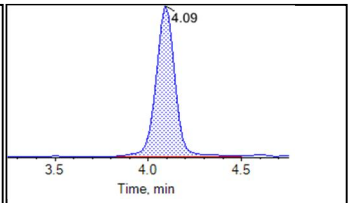

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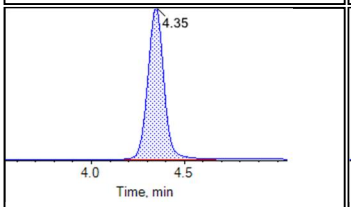
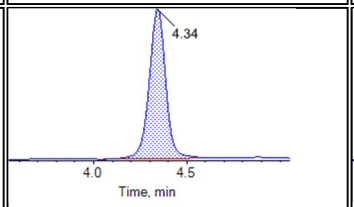
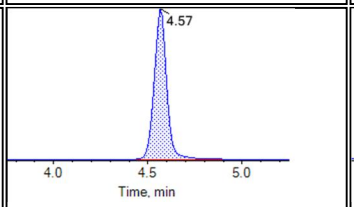


PFTrDA_1



PFTrDA_2



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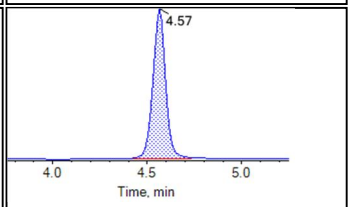

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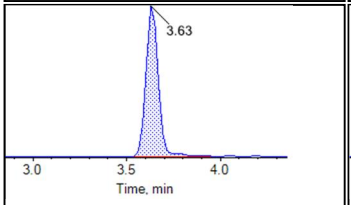

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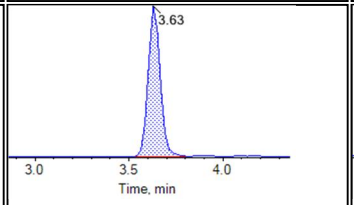

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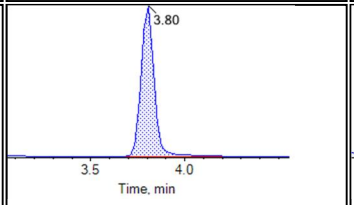
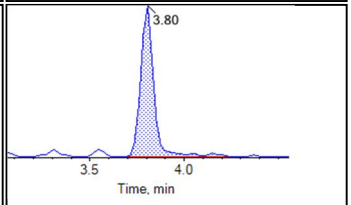


NEtFOSAA_1



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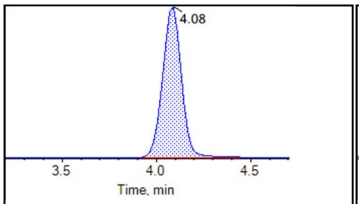

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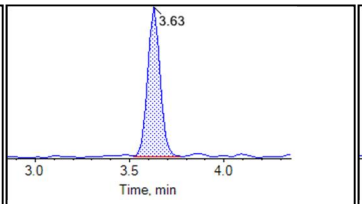
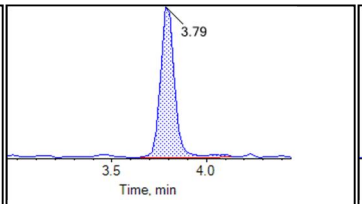
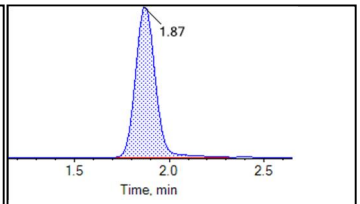


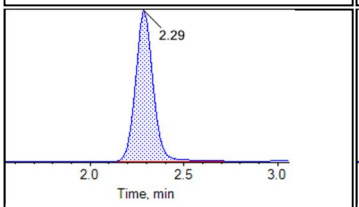
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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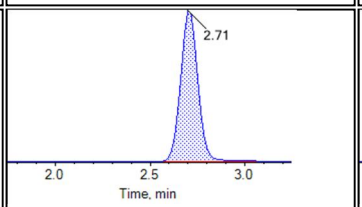

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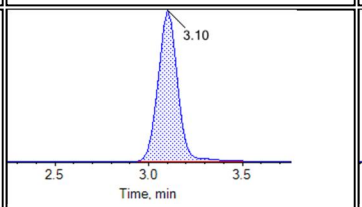

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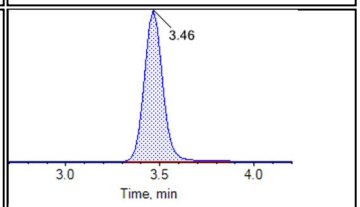

13C6-PFDA

BATTELLE

Chromatogram Report

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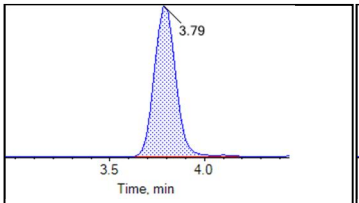
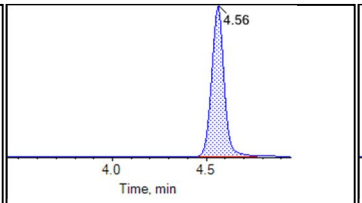
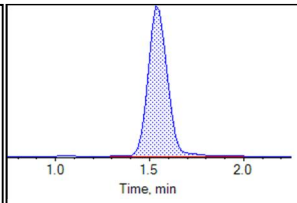


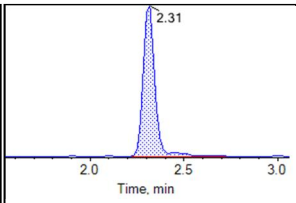

13C7-PFUnA



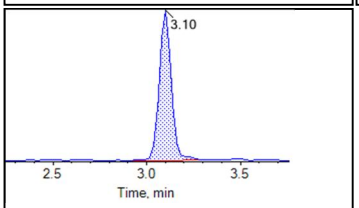

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:55:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:23:36 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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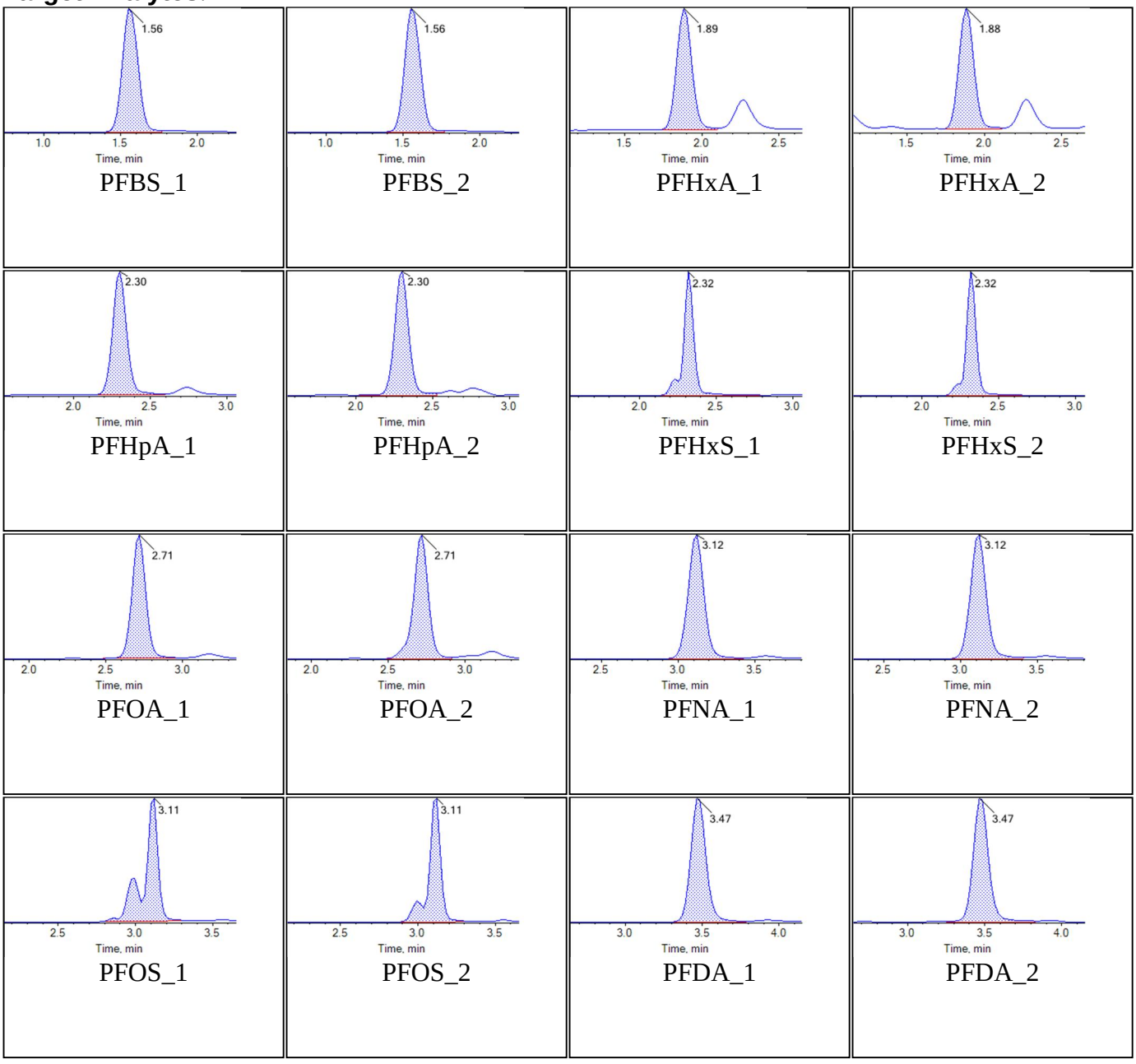

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Chromatogram Report

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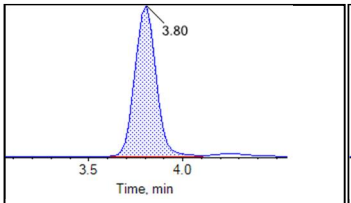

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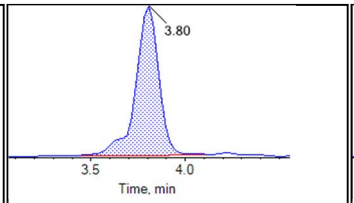

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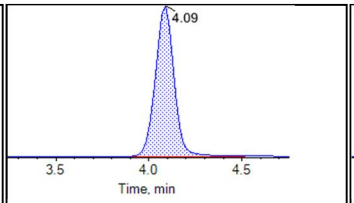

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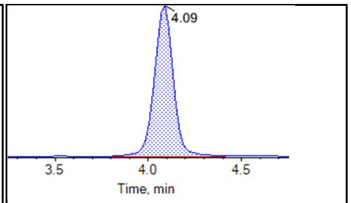

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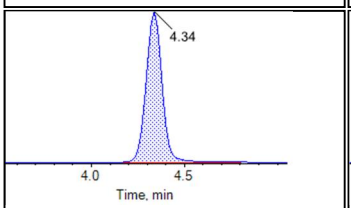

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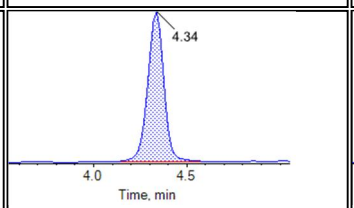

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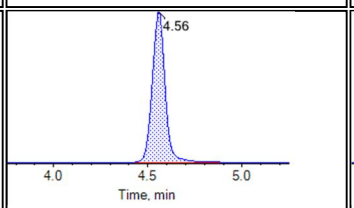

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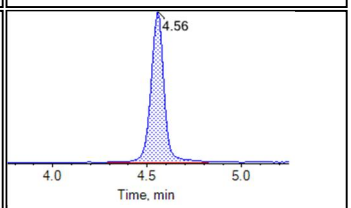

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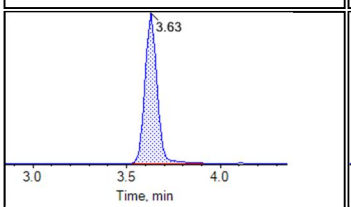

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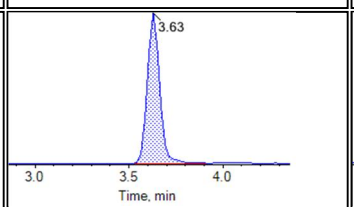

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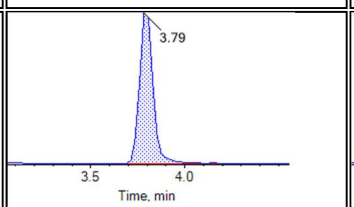

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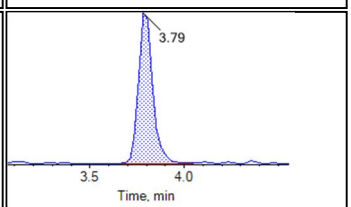
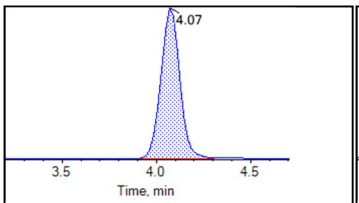
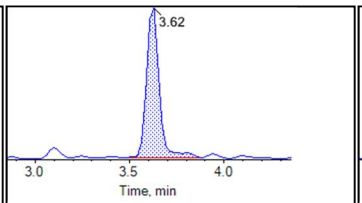


NEtFOSAA_2

## Internal Standards:



13C2-PFDoA



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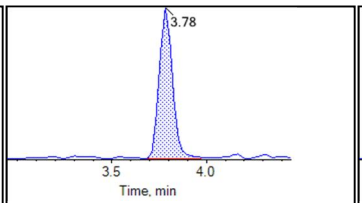
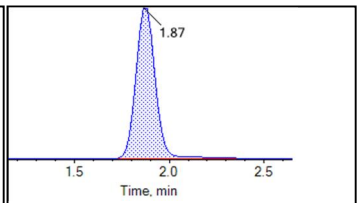
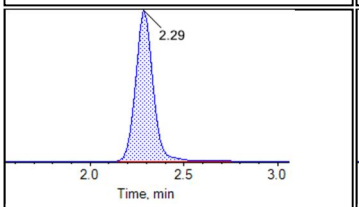


d5-EtFOSAA



13C5-PFHxA



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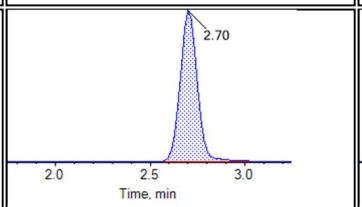

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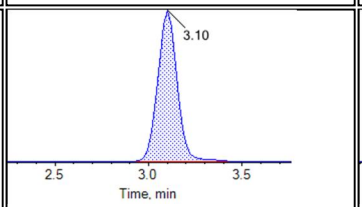

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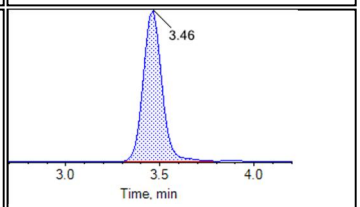

13C6-PFDA

BATTELLE

Chromatogram Report

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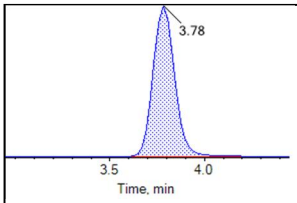
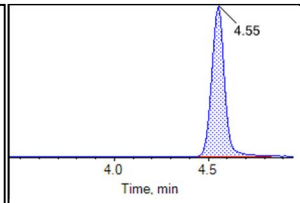
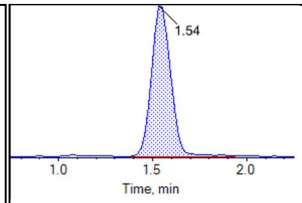


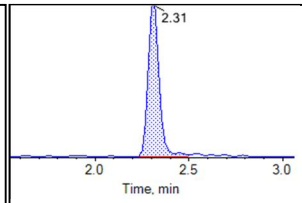

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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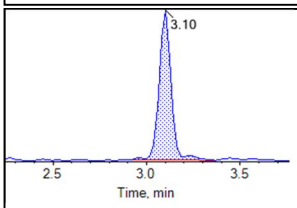


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:55:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:34:28 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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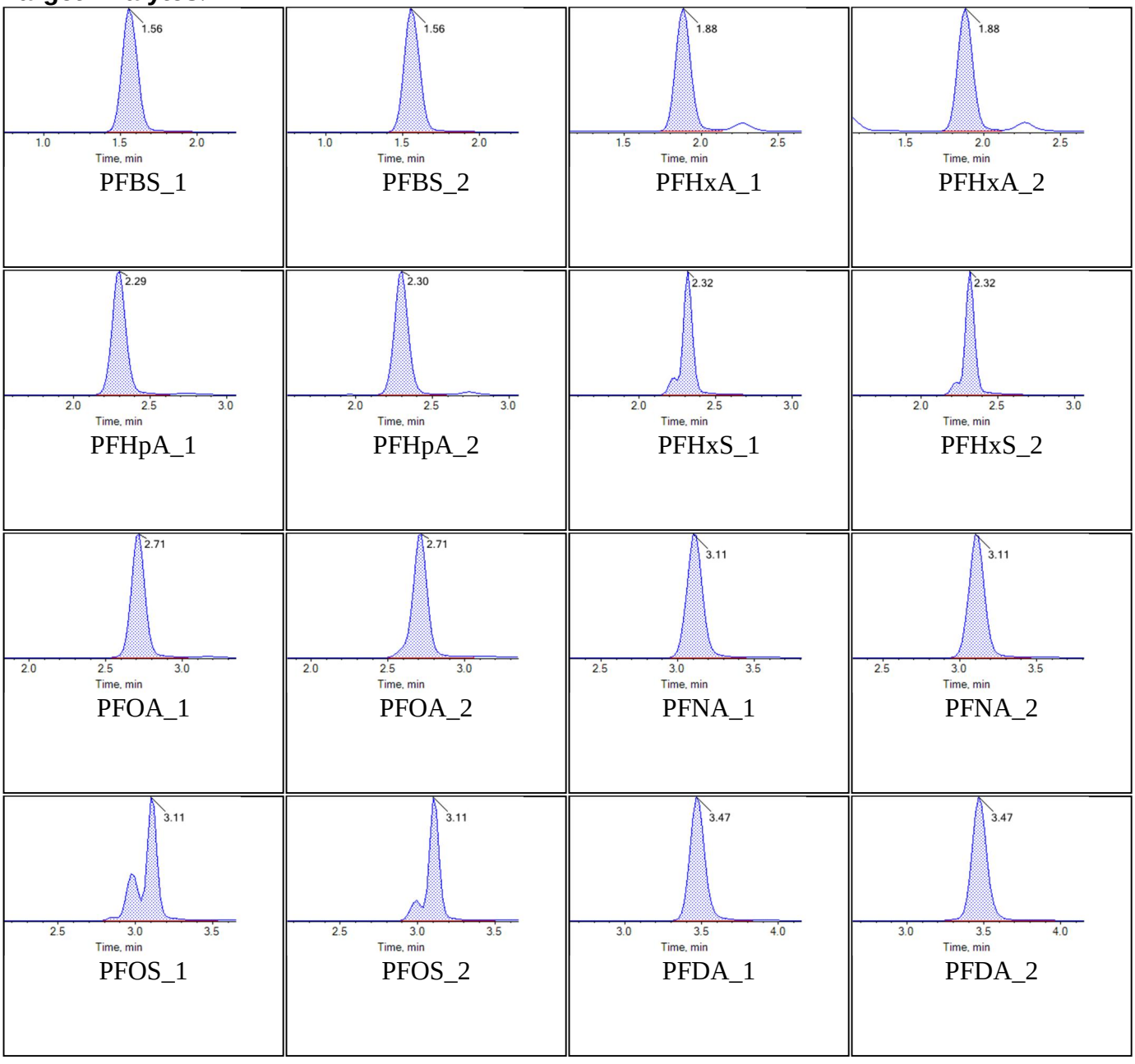

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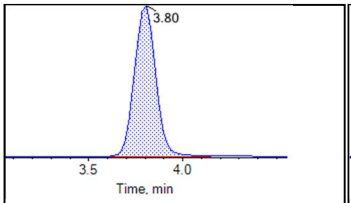

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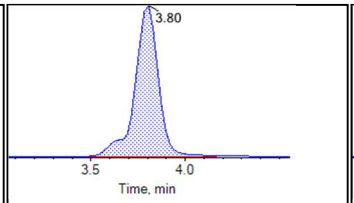

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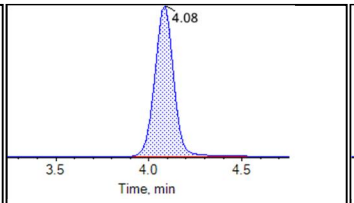

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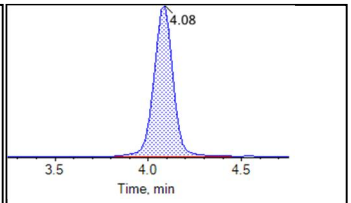
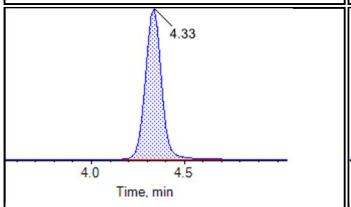
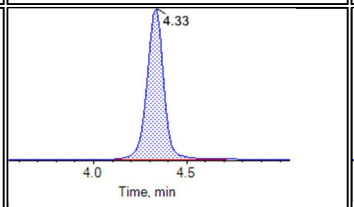


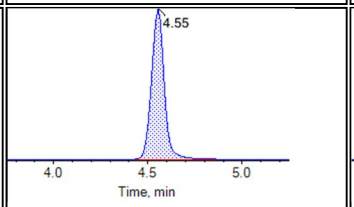
PFDoA_2



PFTrDA_1



PFTrDA_2



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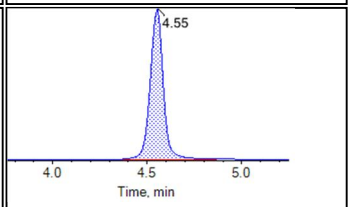

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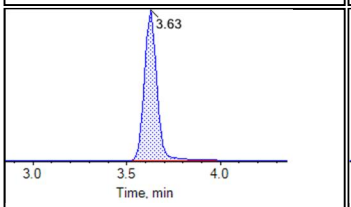

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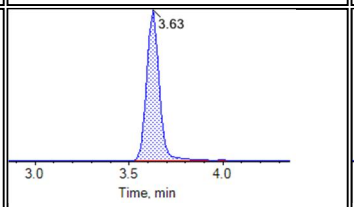

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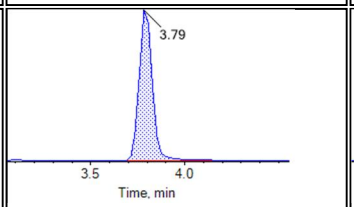
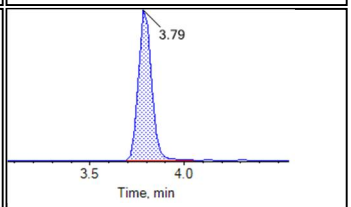


NEtFOSAA_1



NEtFOSAA_2

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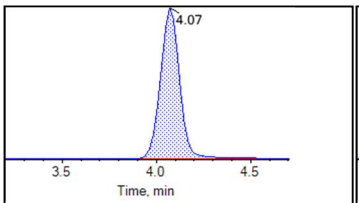

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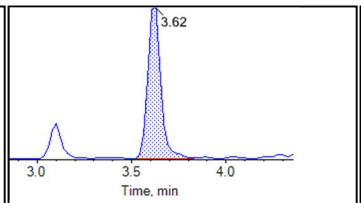
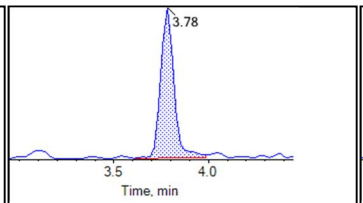
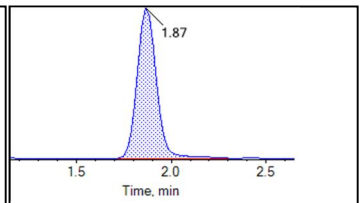


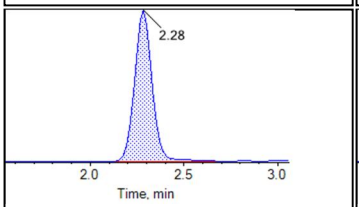
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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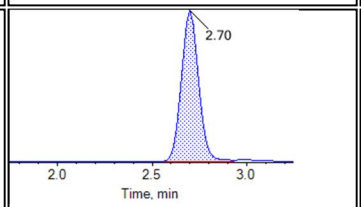
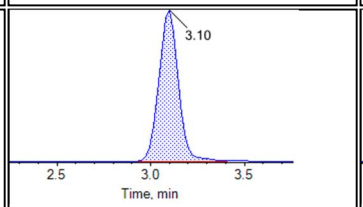
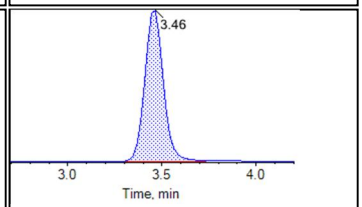


13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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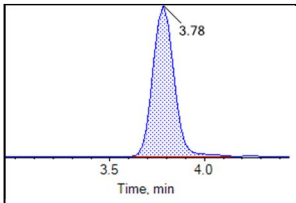
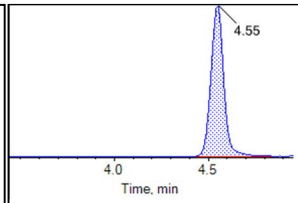



13C7-PFUnA

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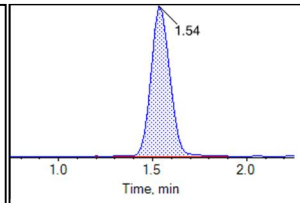
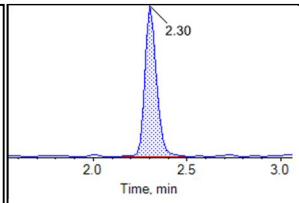
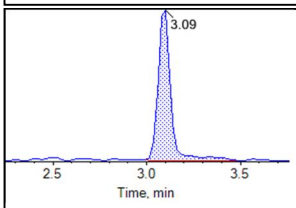



13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:45:19 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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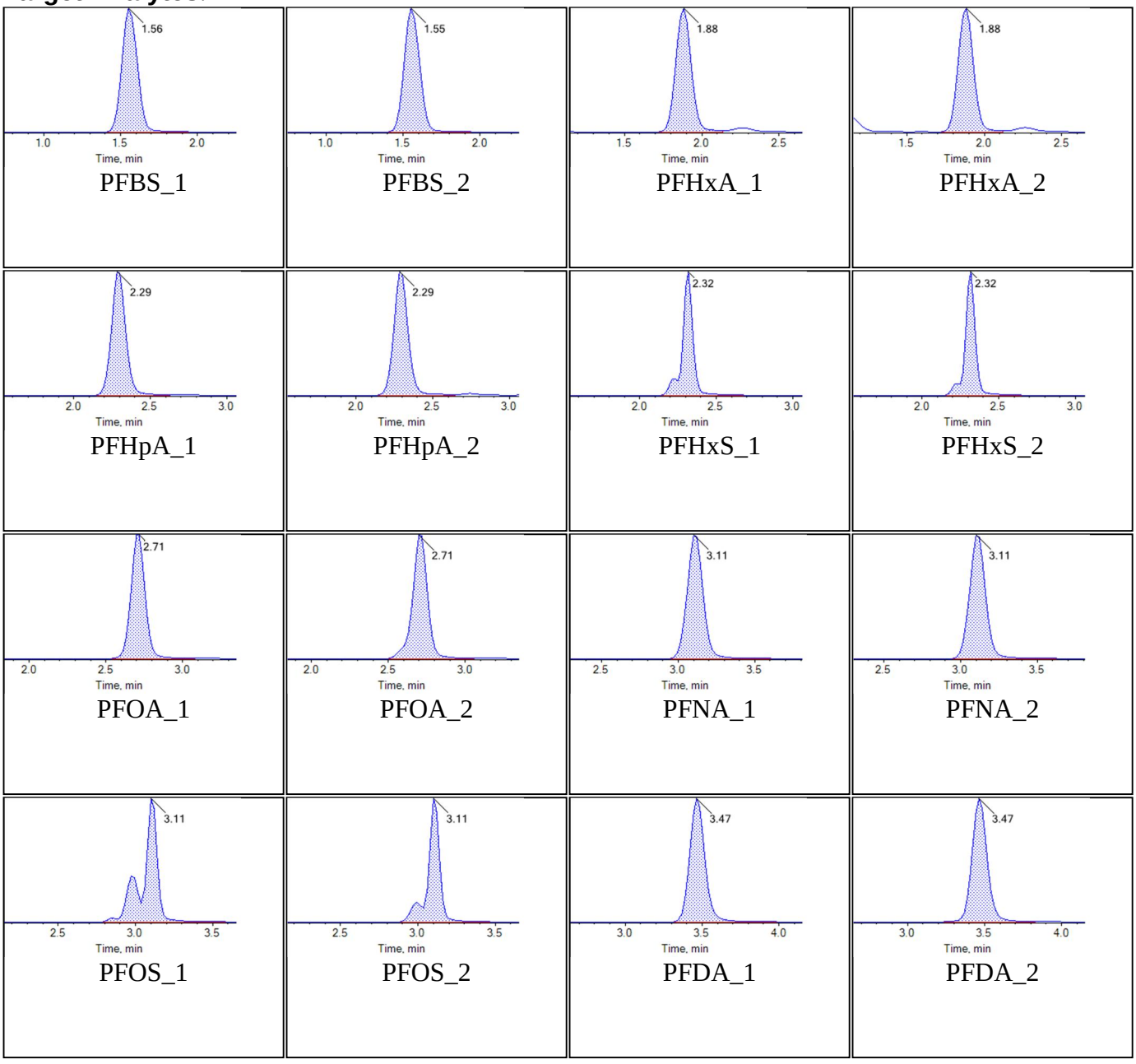

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Chromatogram Report

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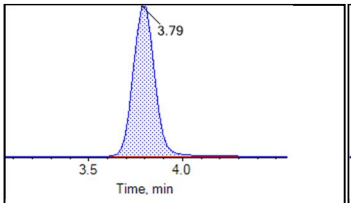

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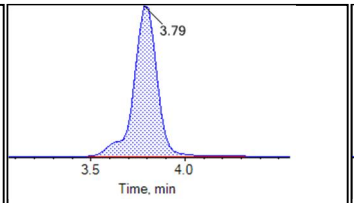

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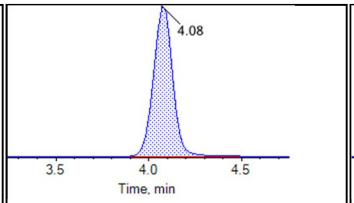

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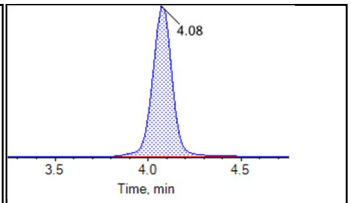

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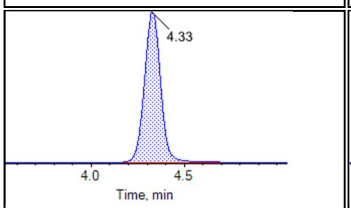
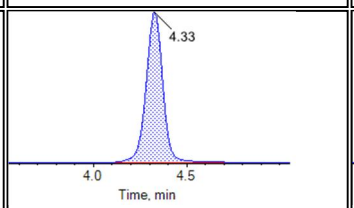


PFTrDA_1



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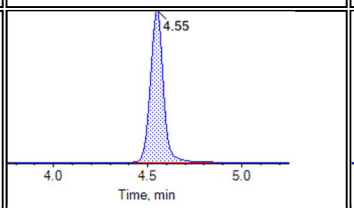

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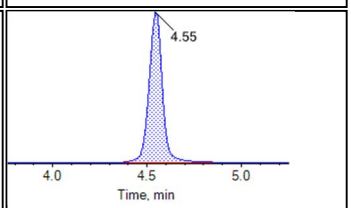

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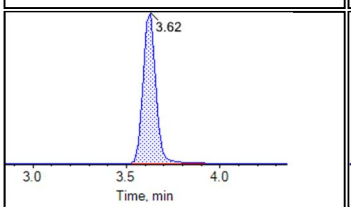

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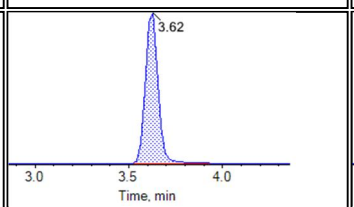

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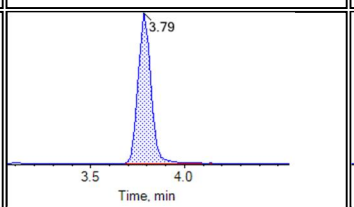

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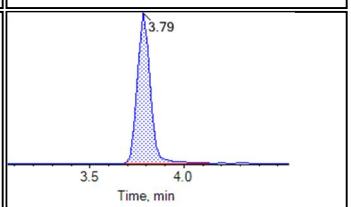

NEtFOSAA_2

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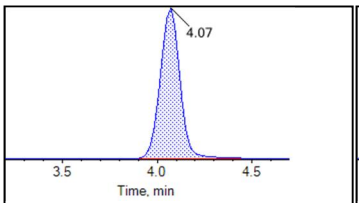

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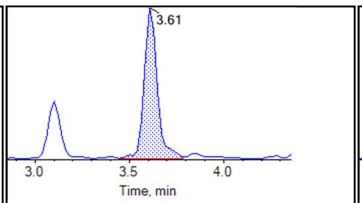

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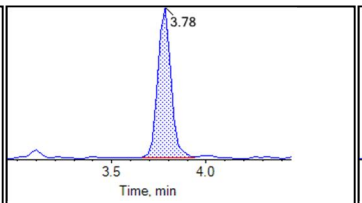
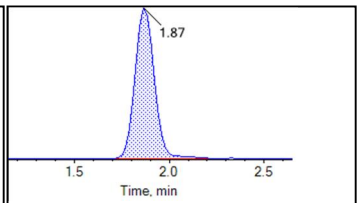
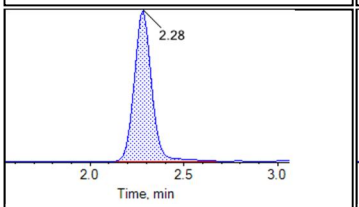


d5-EtFOSAA



13C5-PFHxA



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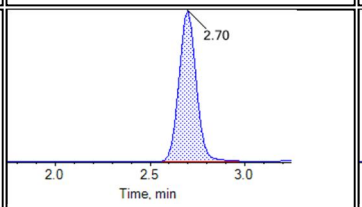

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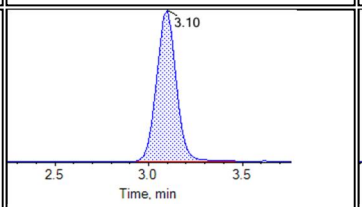
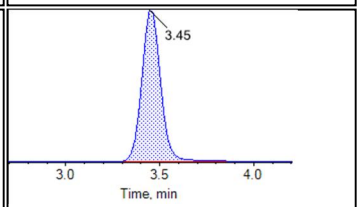


13C9-PFNA



13C6-PFDA

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Chromatogram Report

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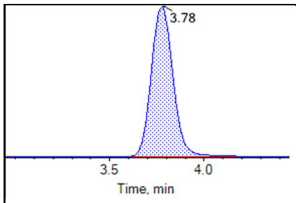
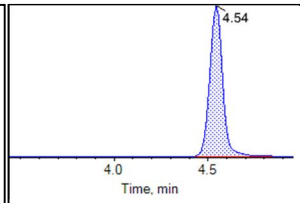



13C7-PFUnA

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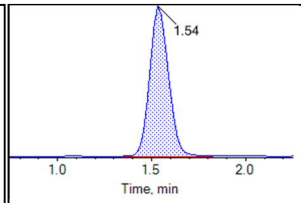
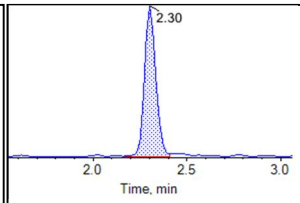



13C3-PFBS

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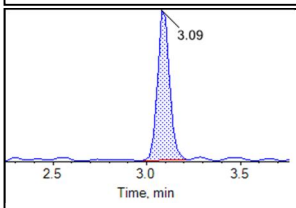


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:55:31 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:56:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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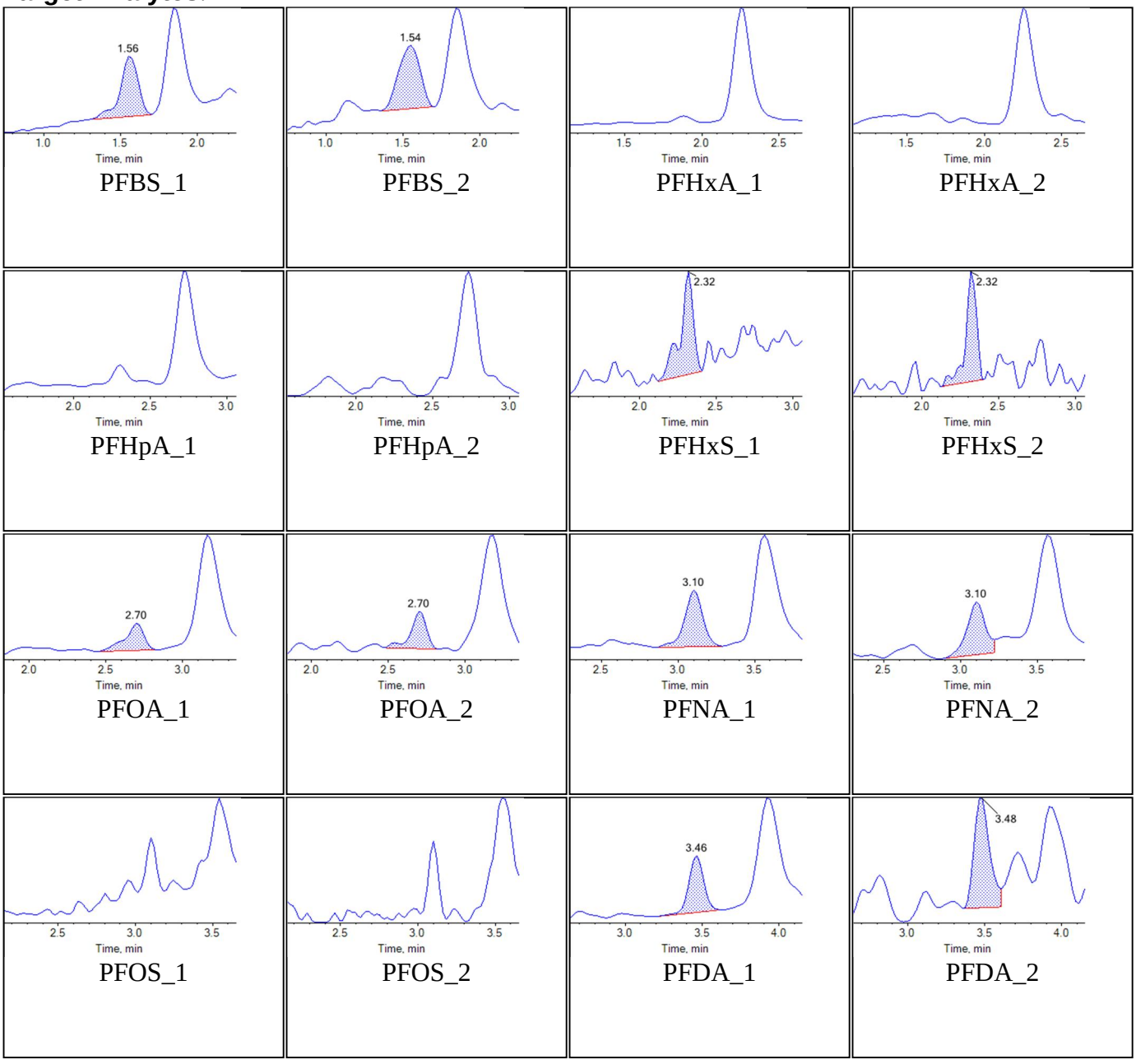

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Chromatogram Report

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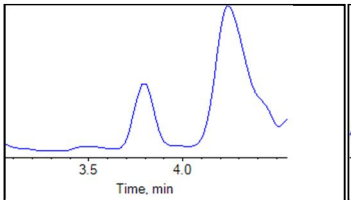
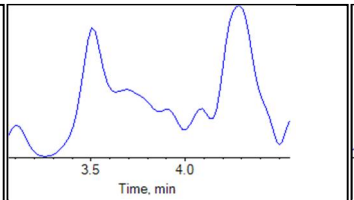
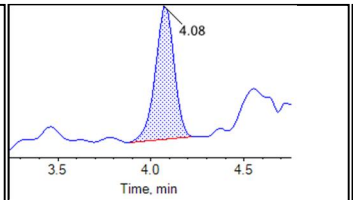


PFUnA_1



PFUnA_2



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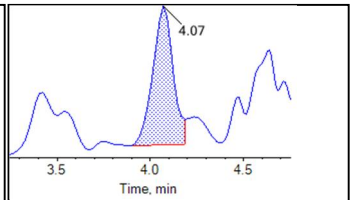

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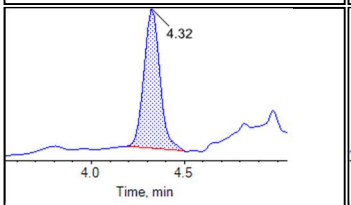
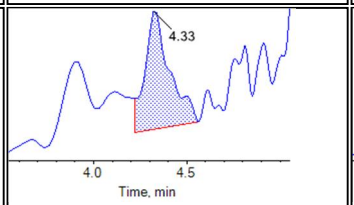
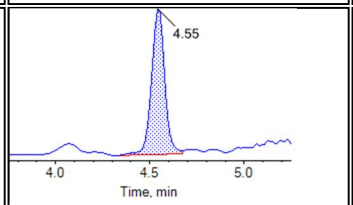


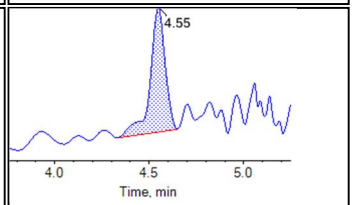
PFTrDA_1



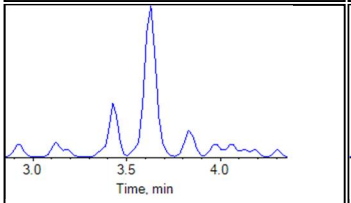
PFTrDA_2



PFTeDA_1



PFTeDA_2



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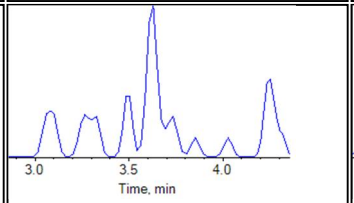

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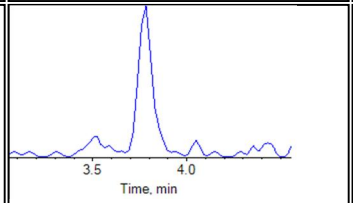
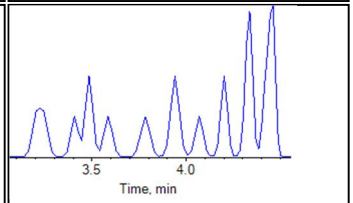


NEtFOSAA_1



NEtFOSAA_2

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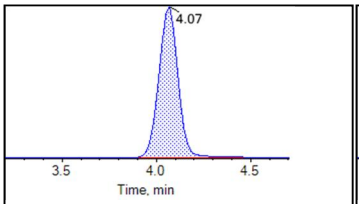

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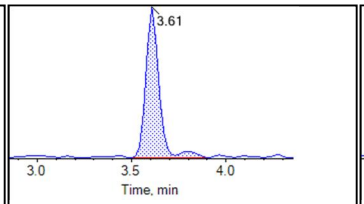
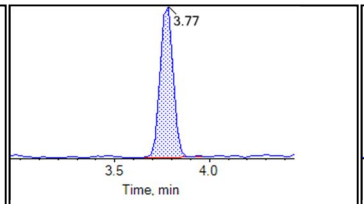
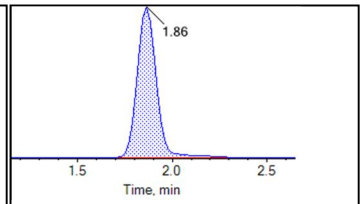


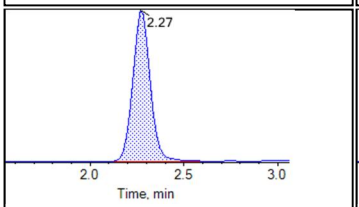
d3-MeFOSAA



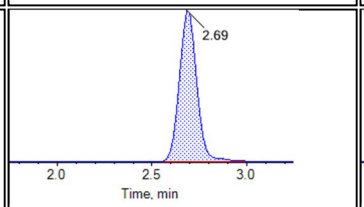
d5-EtFOSAA



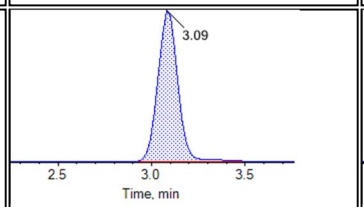
13C5-PFHxA



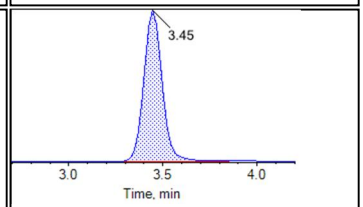
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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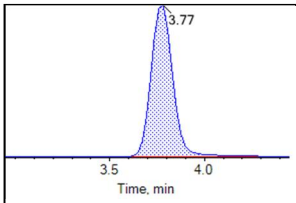
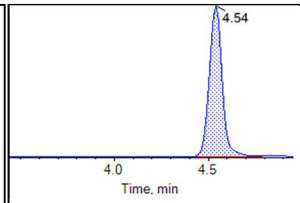
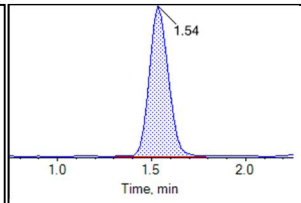


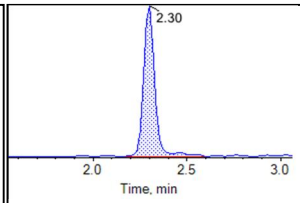

13C7-PFUnA



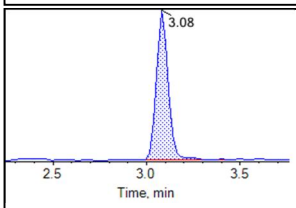

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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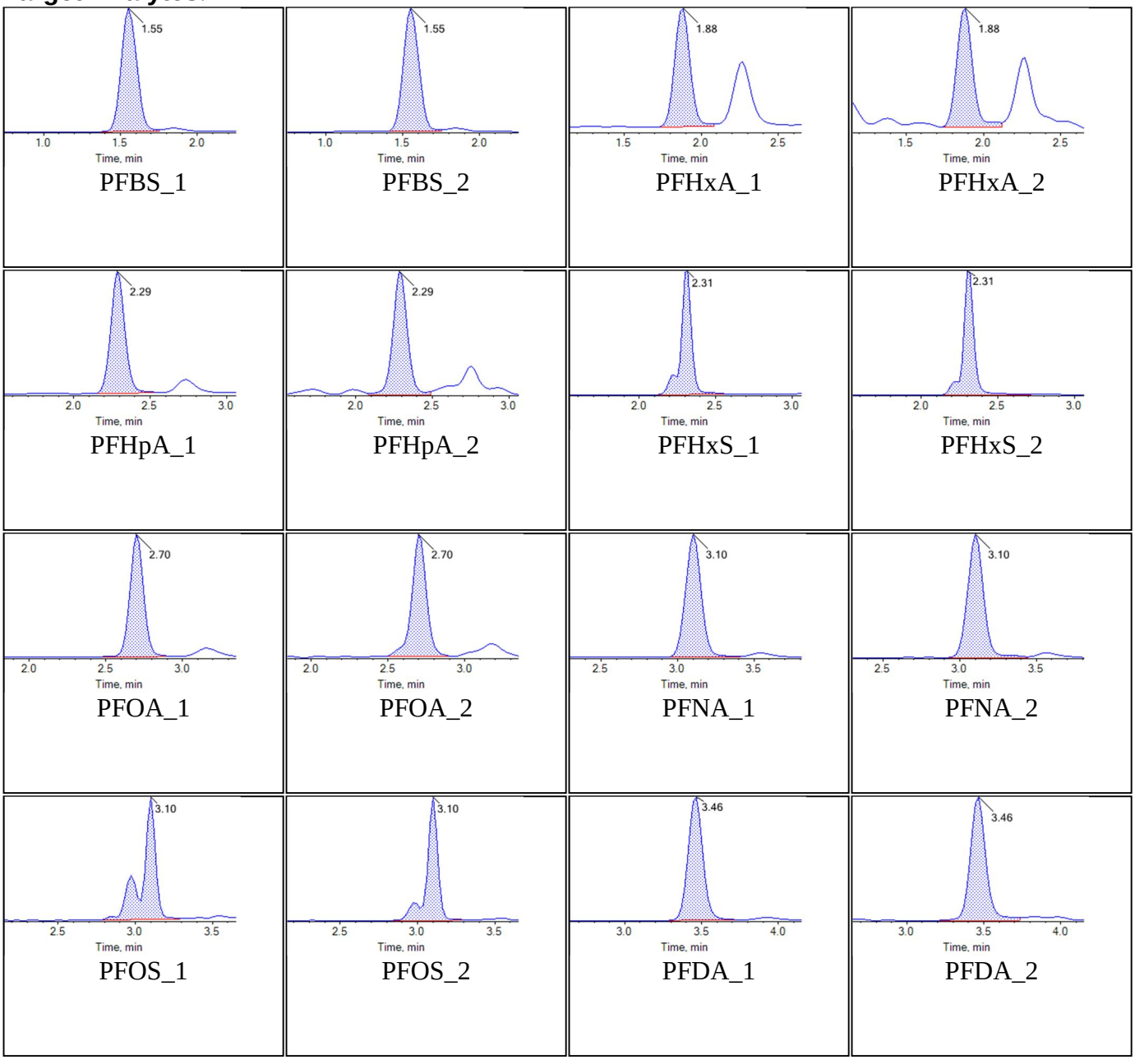

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Chromatogram Report

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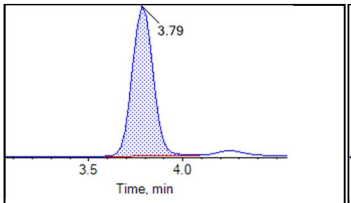

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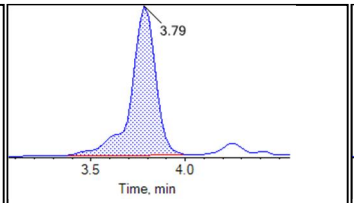

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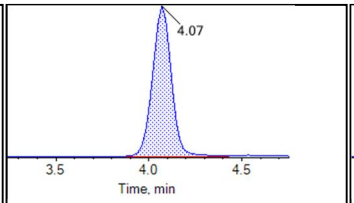

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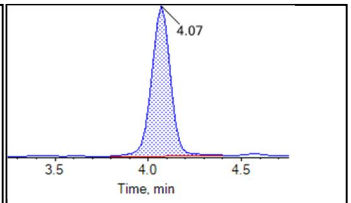
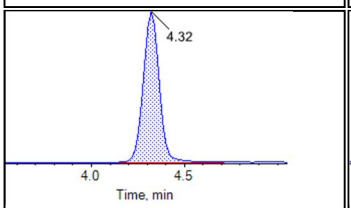
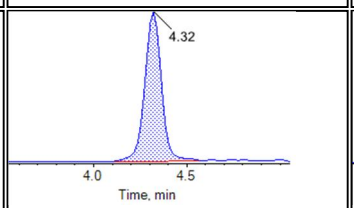


PFDoA_2



PFTrDA_1



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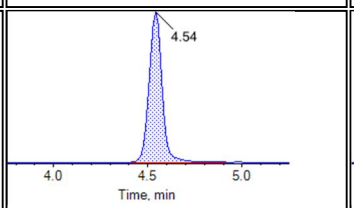

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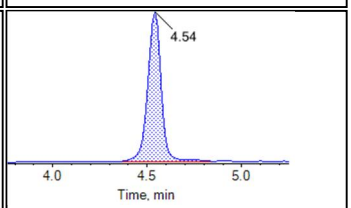

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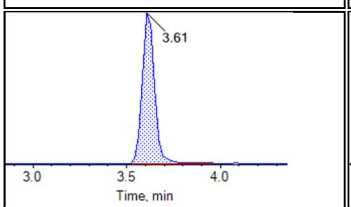

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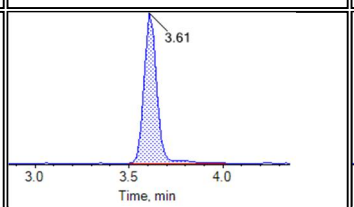

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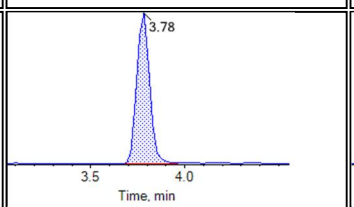
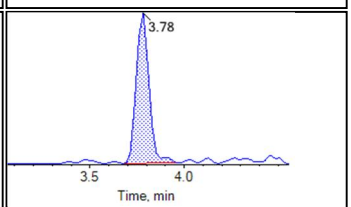


NEtFOSAA_1



NEtFOSAA_2

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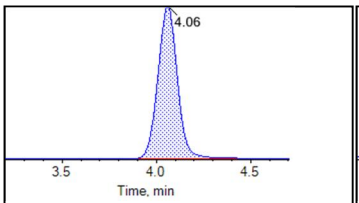
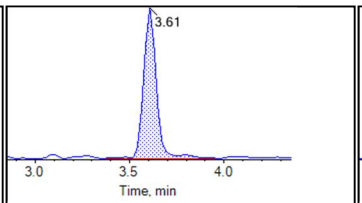
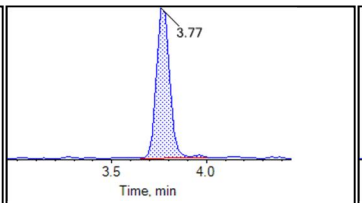


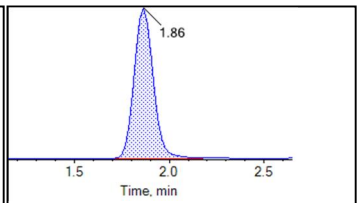
13C2-PFDoA



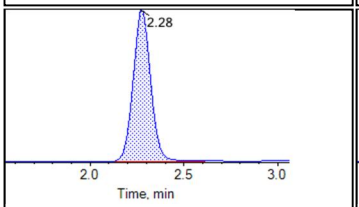
d3-MeFOSAA



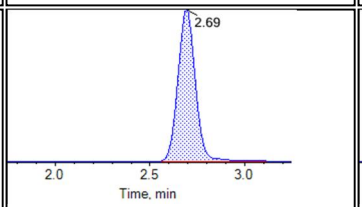
d5-EtFOSAA



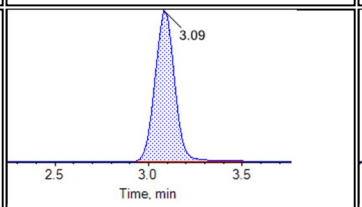
13C5-PFHxA



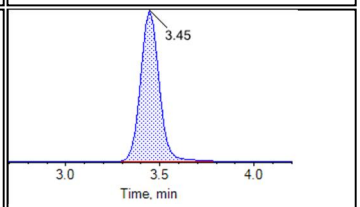
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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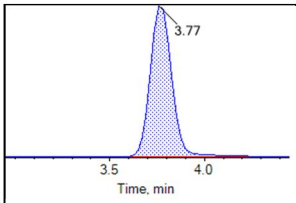
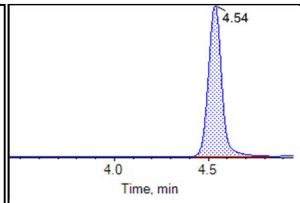
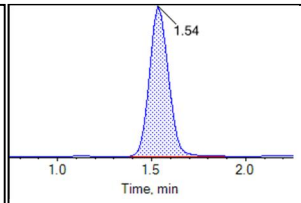


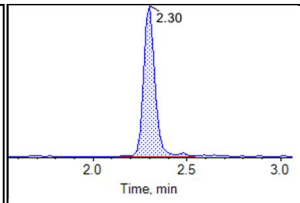

13C7-PFUnA



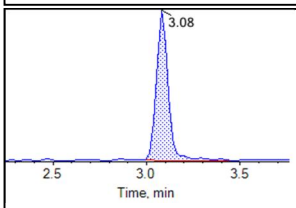

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:55:50 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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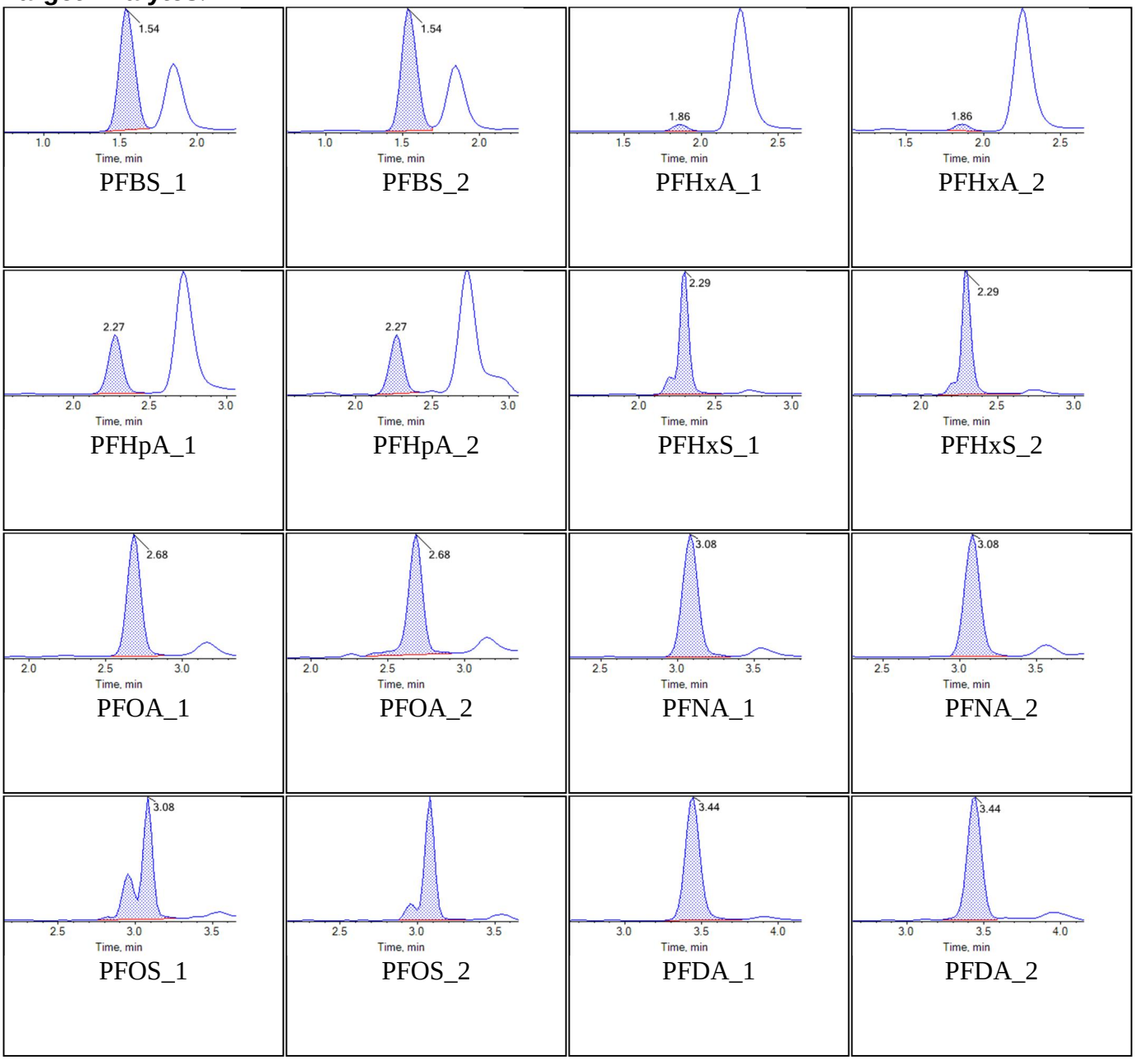

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Chromatogram Report

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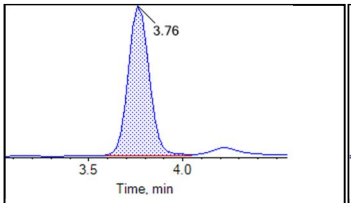
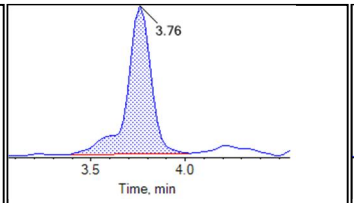
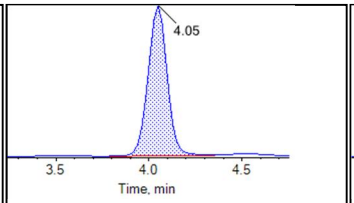


PFUnA_1



PFUnA_2



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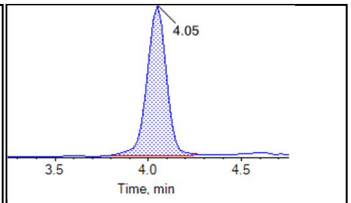
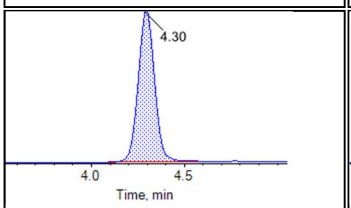
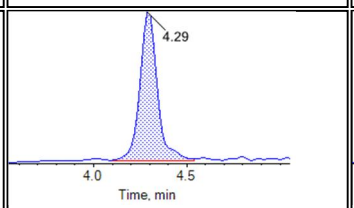


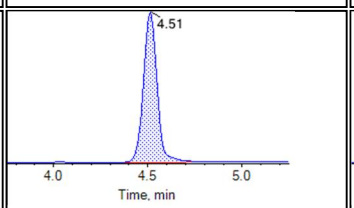
PFDoA_2



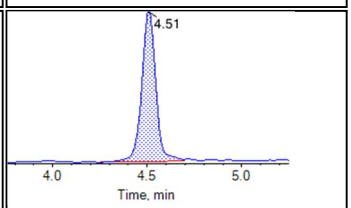
PFTrDA_1



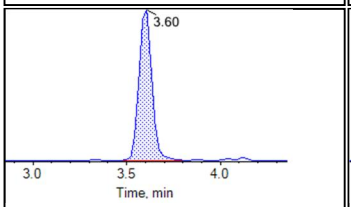
PFTrDA_2



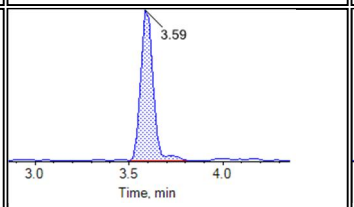
PFTeDA_1



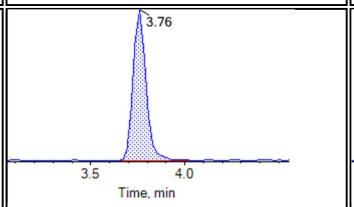
PFTeDA_2



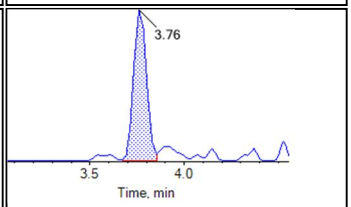
NMeFOSAA_1



NMeFOSAA_2



NEtFOSAA_1



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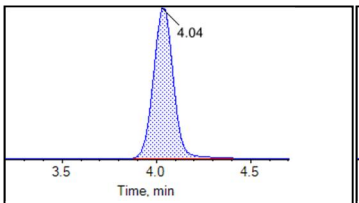

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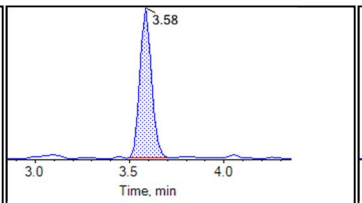
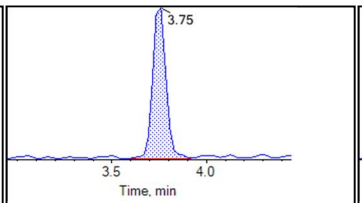
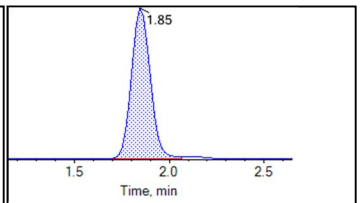


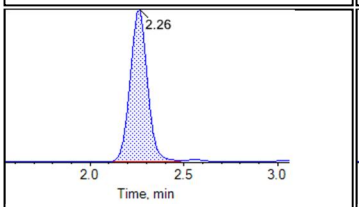
d3-MeFOSAA



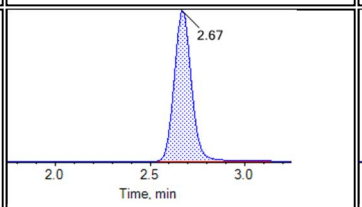
d5-EtFOSAA



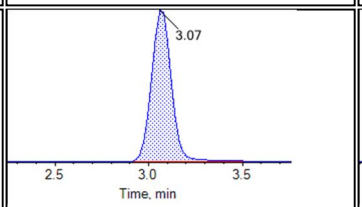
13C5-PFHxA



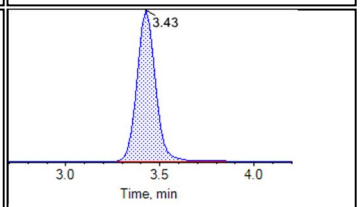
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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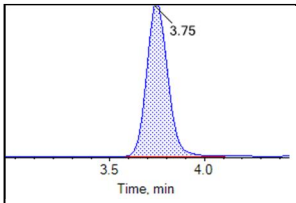
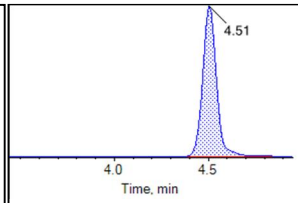
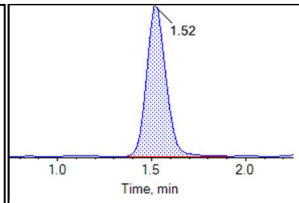


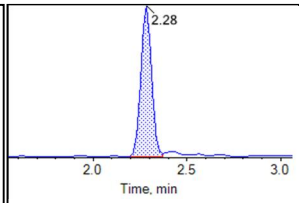

13C7-PFUnA



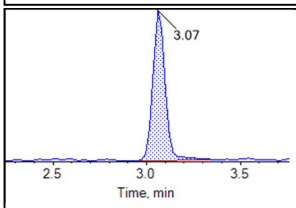

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | IB | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:20:17 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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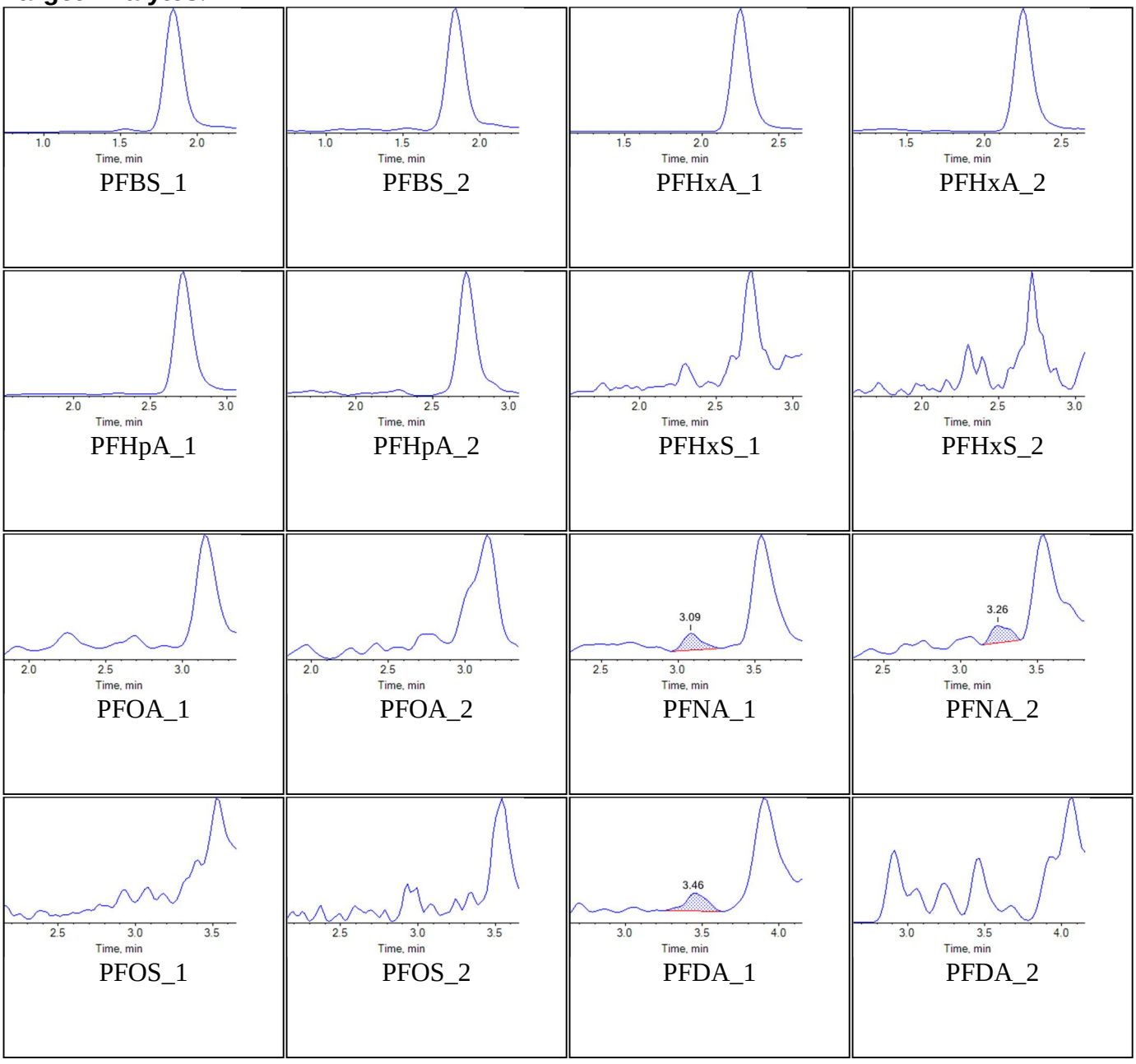

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Chromatogram Report

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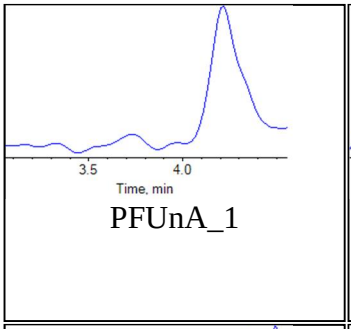

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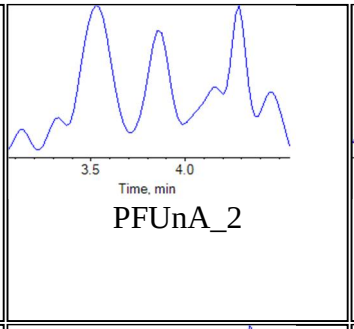
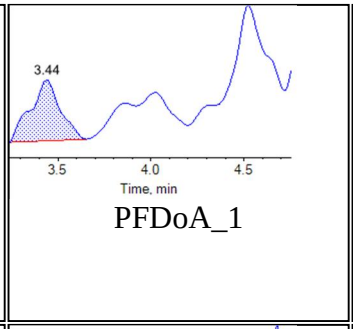


PFUnA_2



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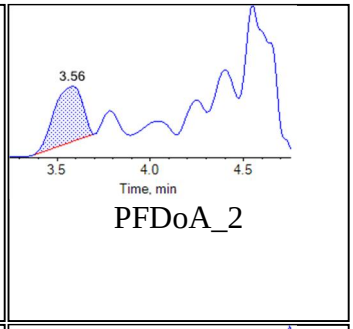

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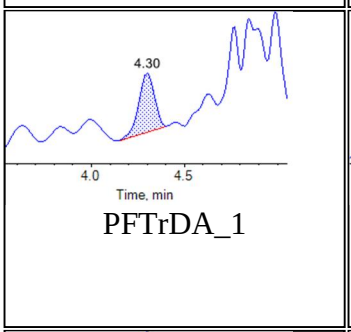

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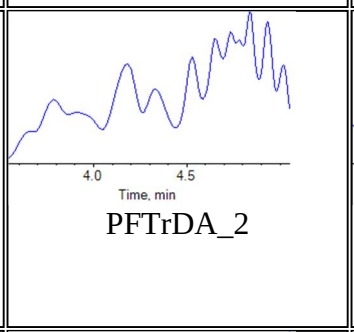

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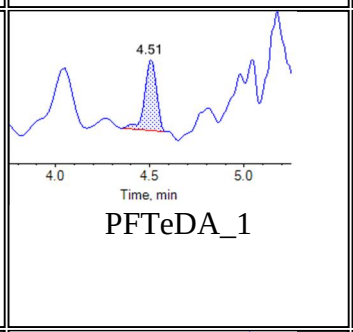

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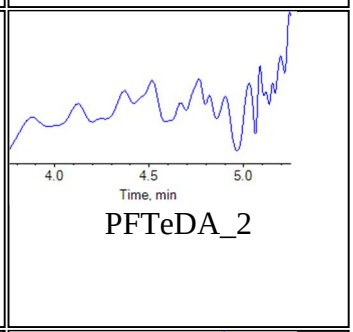

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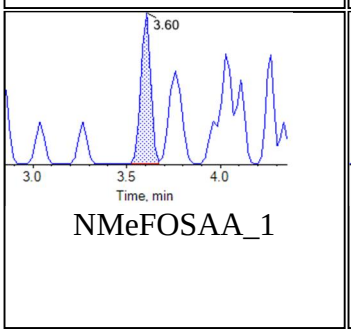

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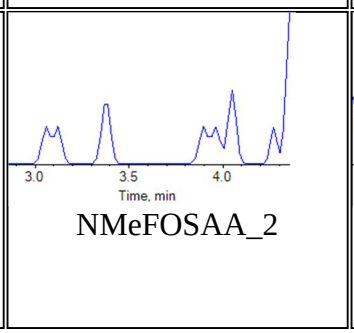

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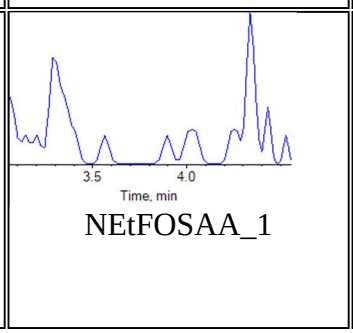
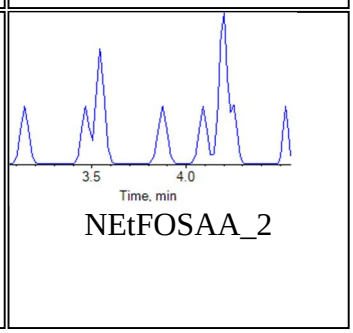


NEtFOSAA_1



NEtFOSAA_2

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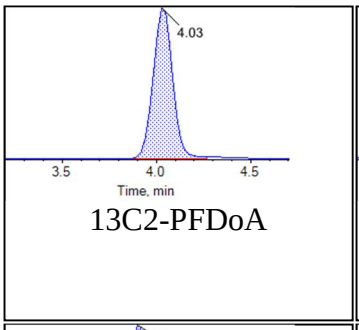
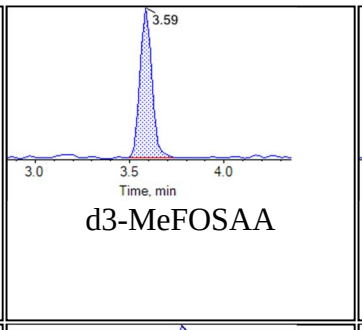
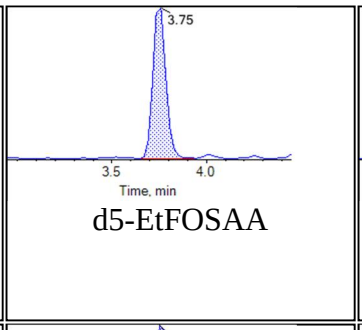


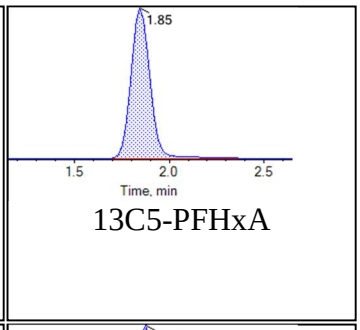
13C2-PFDoA



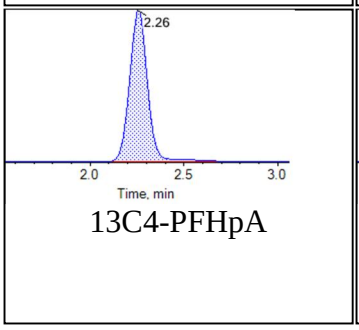
d3-MeFOSAA



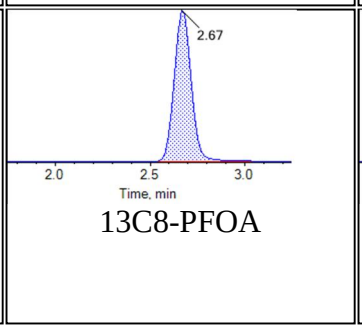
d5-EtFOSAA



13C5-PFHxA



13C4-PFHpA



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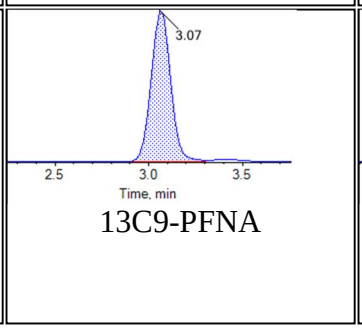
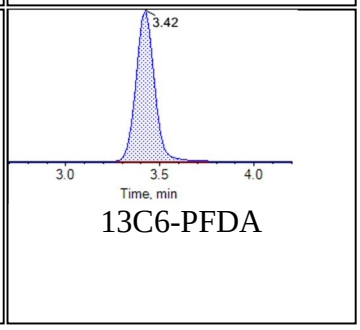


13C9-PFNA



13C6-PFDA

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Chromatogram Report

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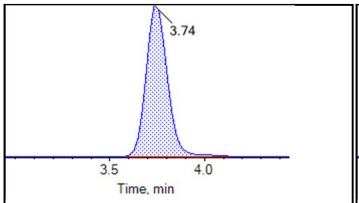
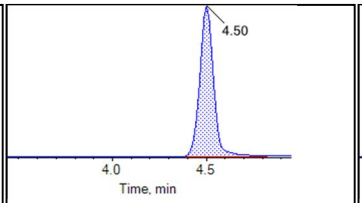
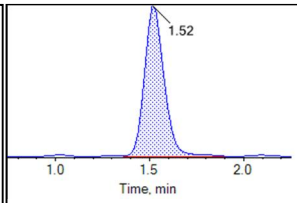


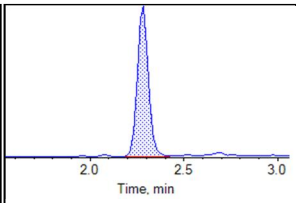

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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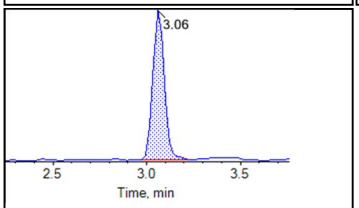


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:56:04 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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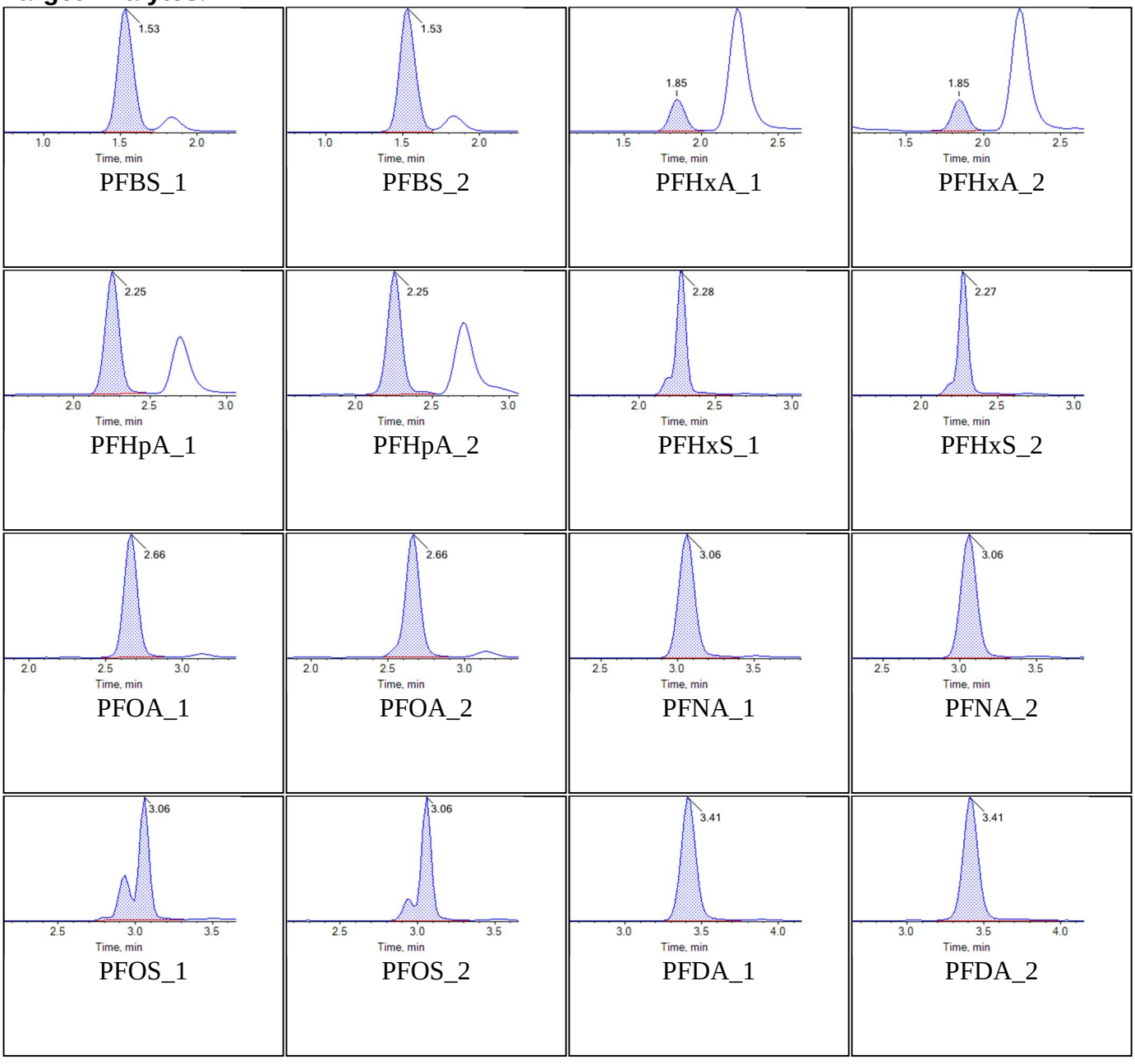

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Chromatogram Report

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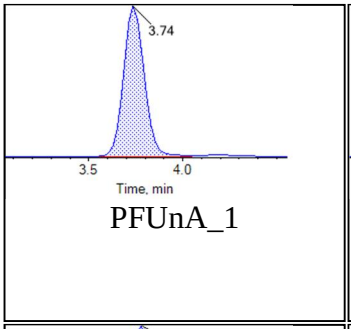

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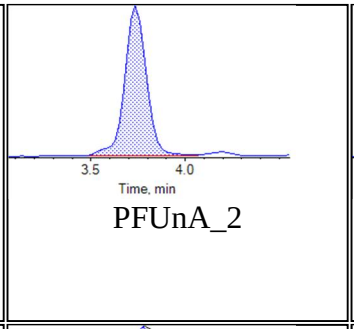
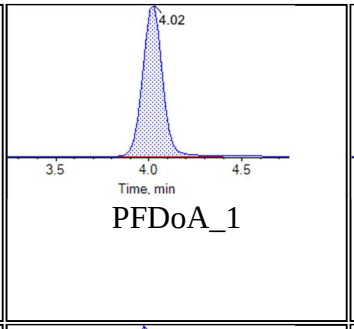
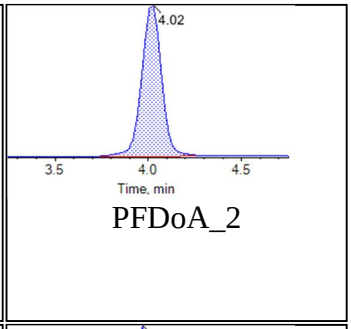


PFUnA_2



PFDoA_1



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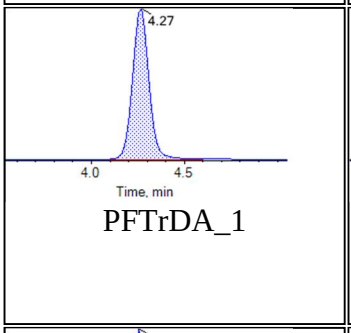
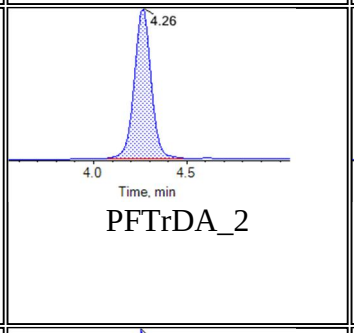
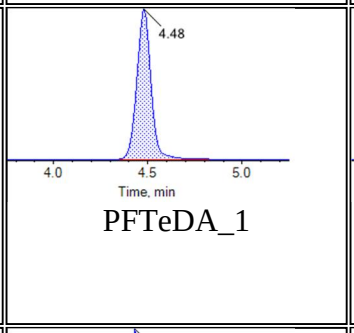


PFTrDA_1



PFTrDA_2



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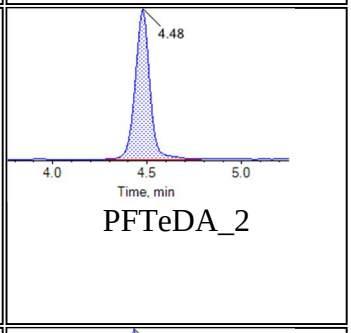
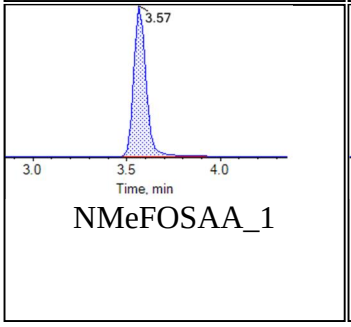
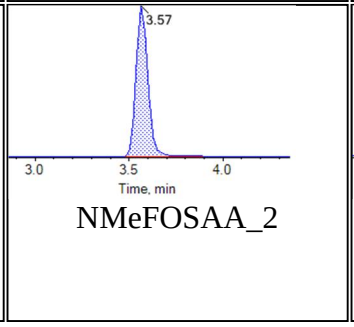


PFTeDA_2



NMeFOSAA_1



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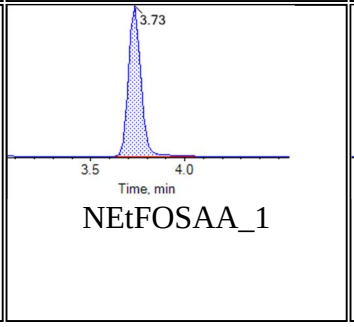

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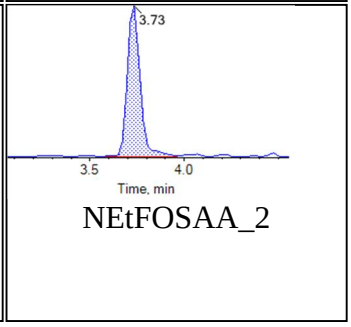

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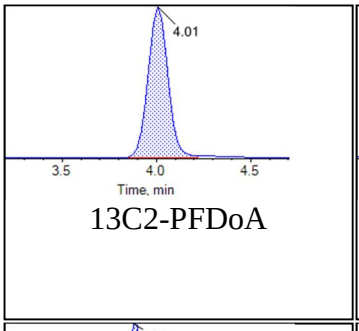
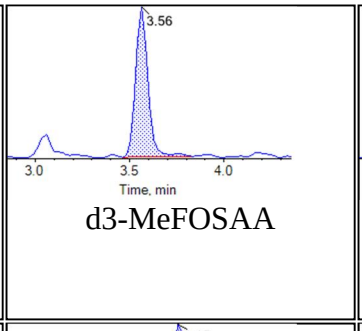
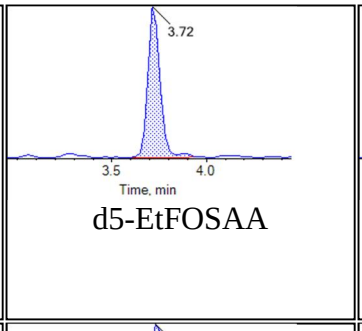


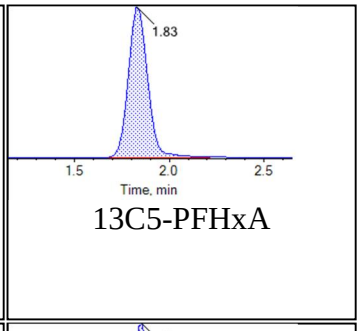
13C2-PFDoA



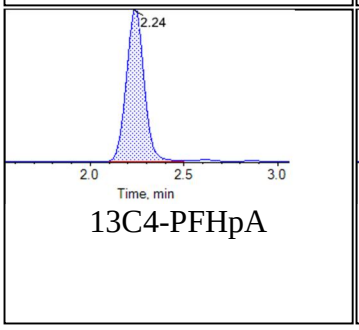
d3-MeFOSAA



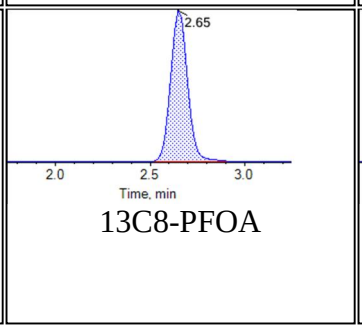
d5-EtFOSAA



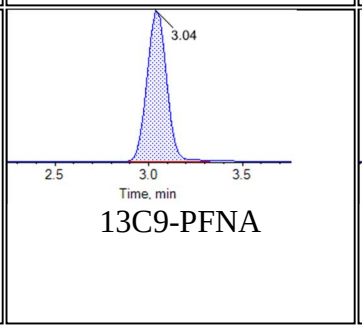
13C5-PFHxA



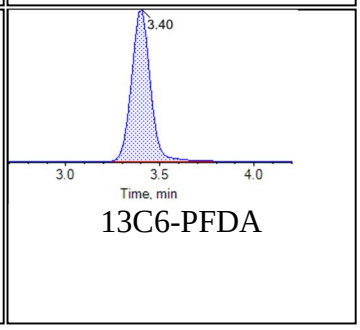
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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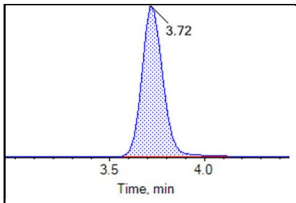
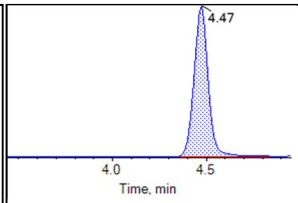
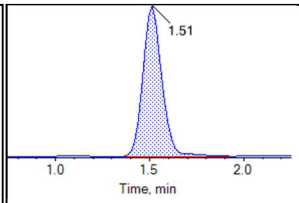


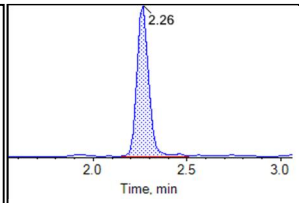

13C7-PFUnA



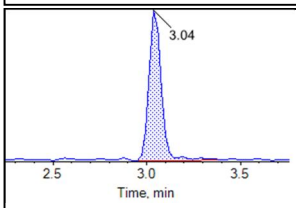

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(11) | **Injection Vial** | 14 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:30:40 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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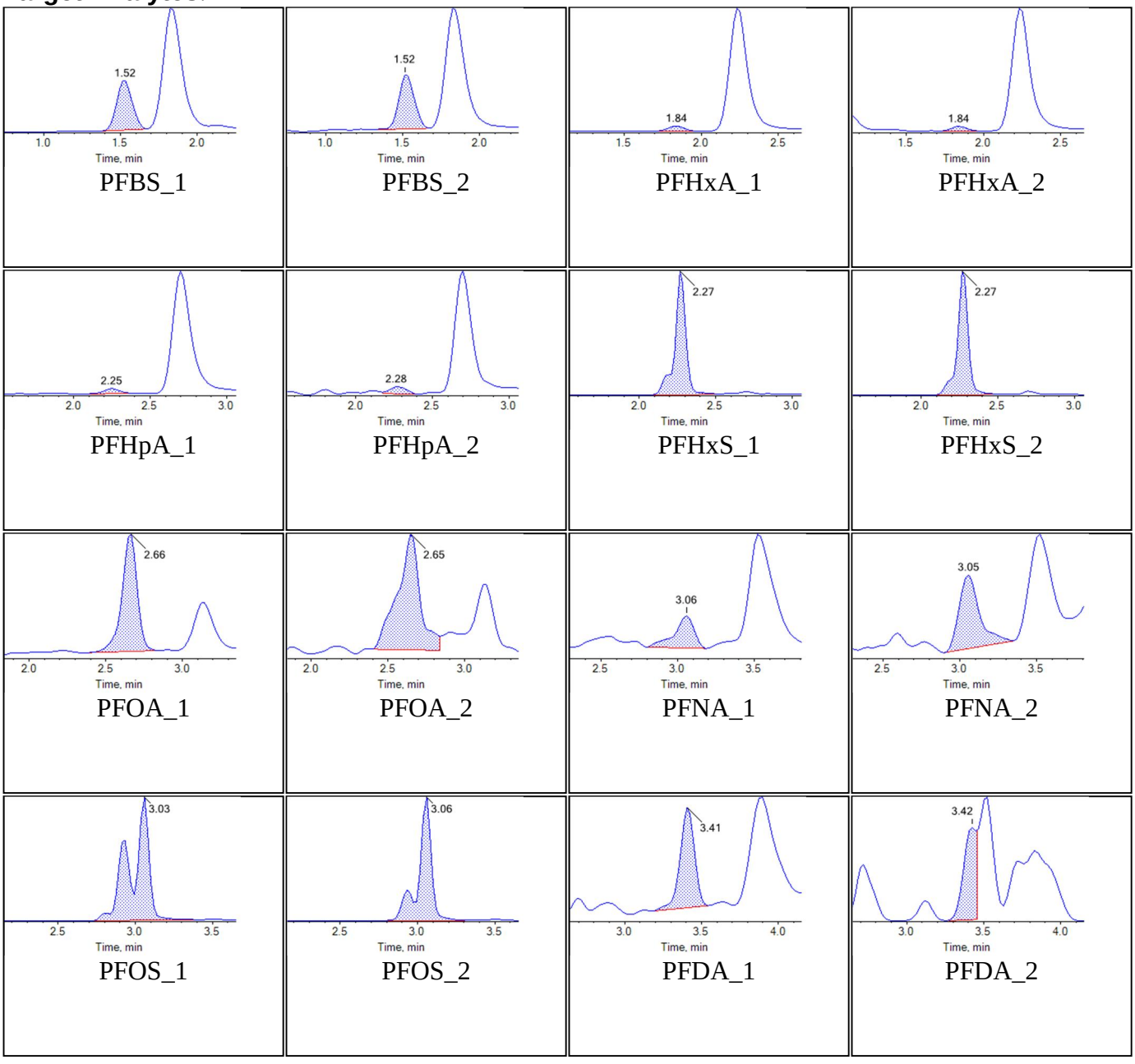

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Chromatogram Report

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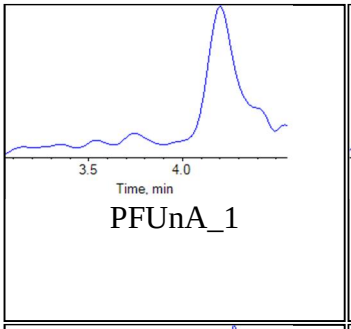

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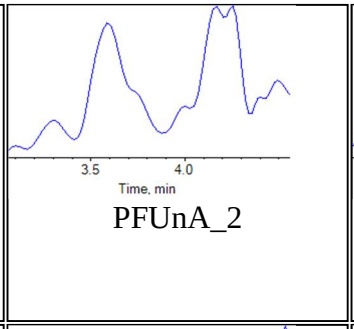
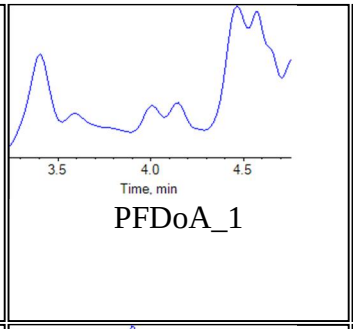


PFUnA_2



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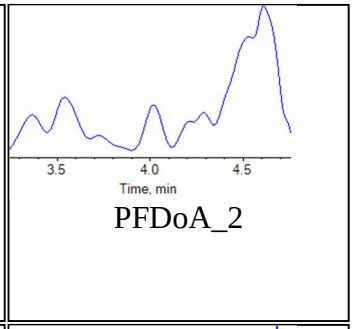
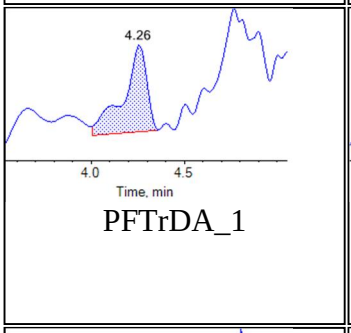


PFDoA_2



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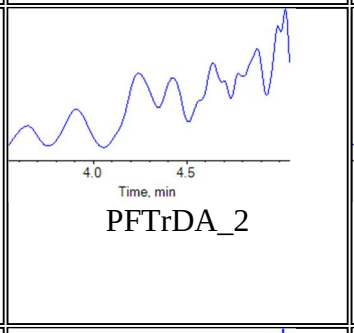

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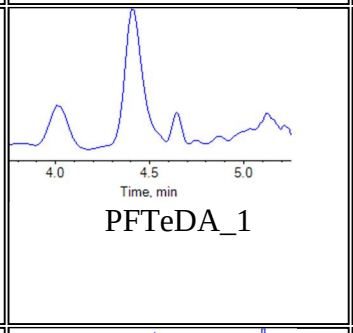

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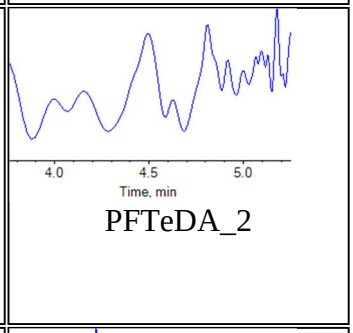

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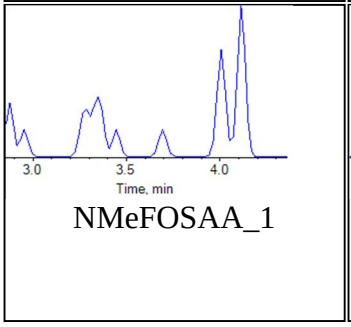

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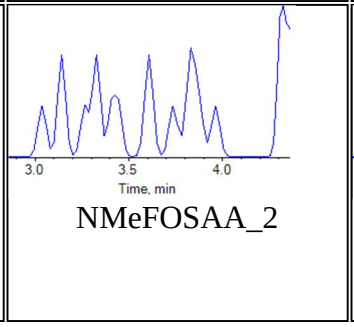

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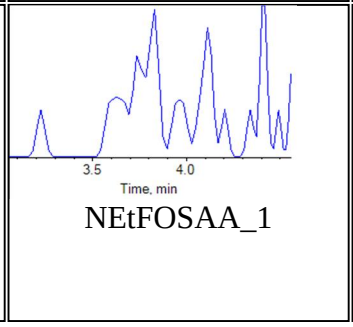

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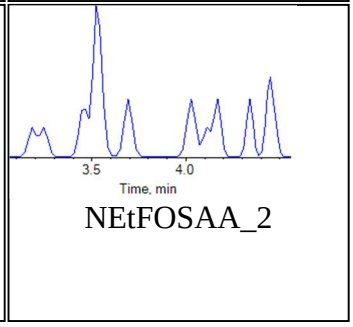

NEtFOSAA_2

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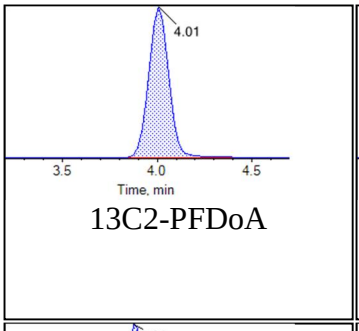
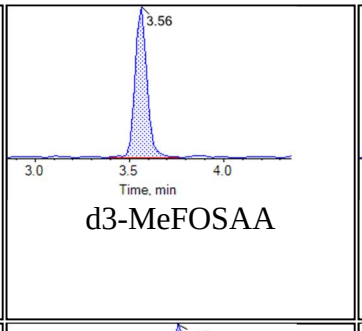
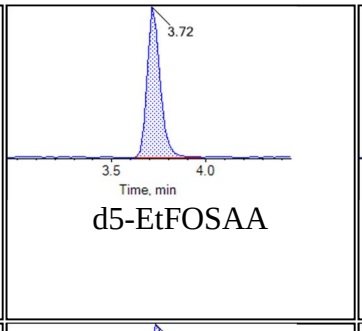


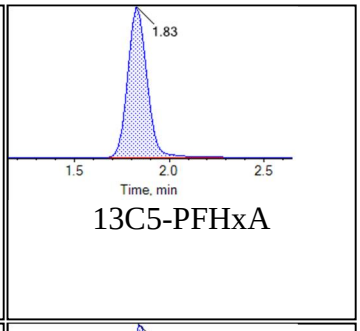
13C2-PFDoA



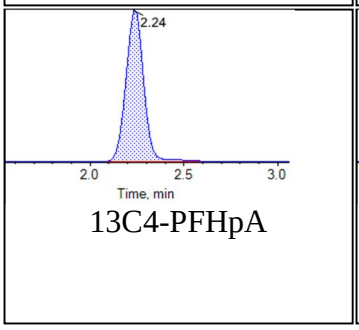
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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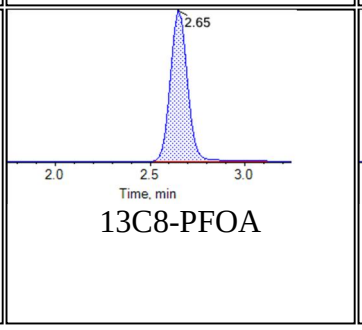
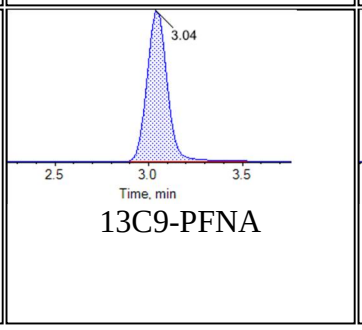
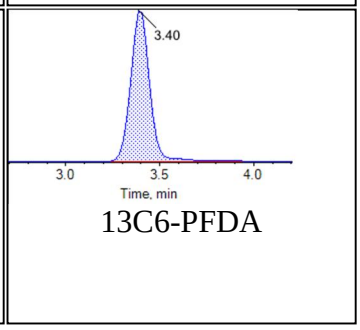


13C8-PFOA



13C9-PFNA



13C6-PFDA

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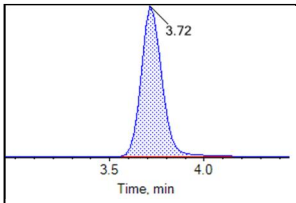
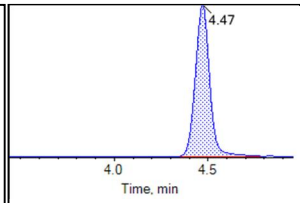
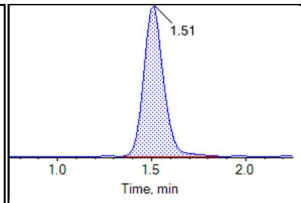


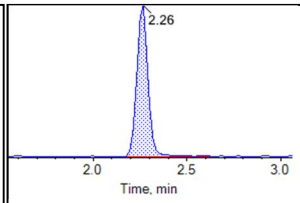

13C7-PFUnA




13C2-PFTeDA




13C3-PFBS

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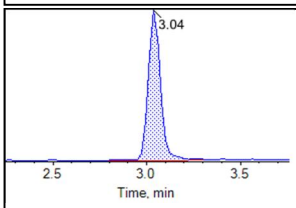


13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
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| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(9) | **Injection Vial** | 15 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:41:32 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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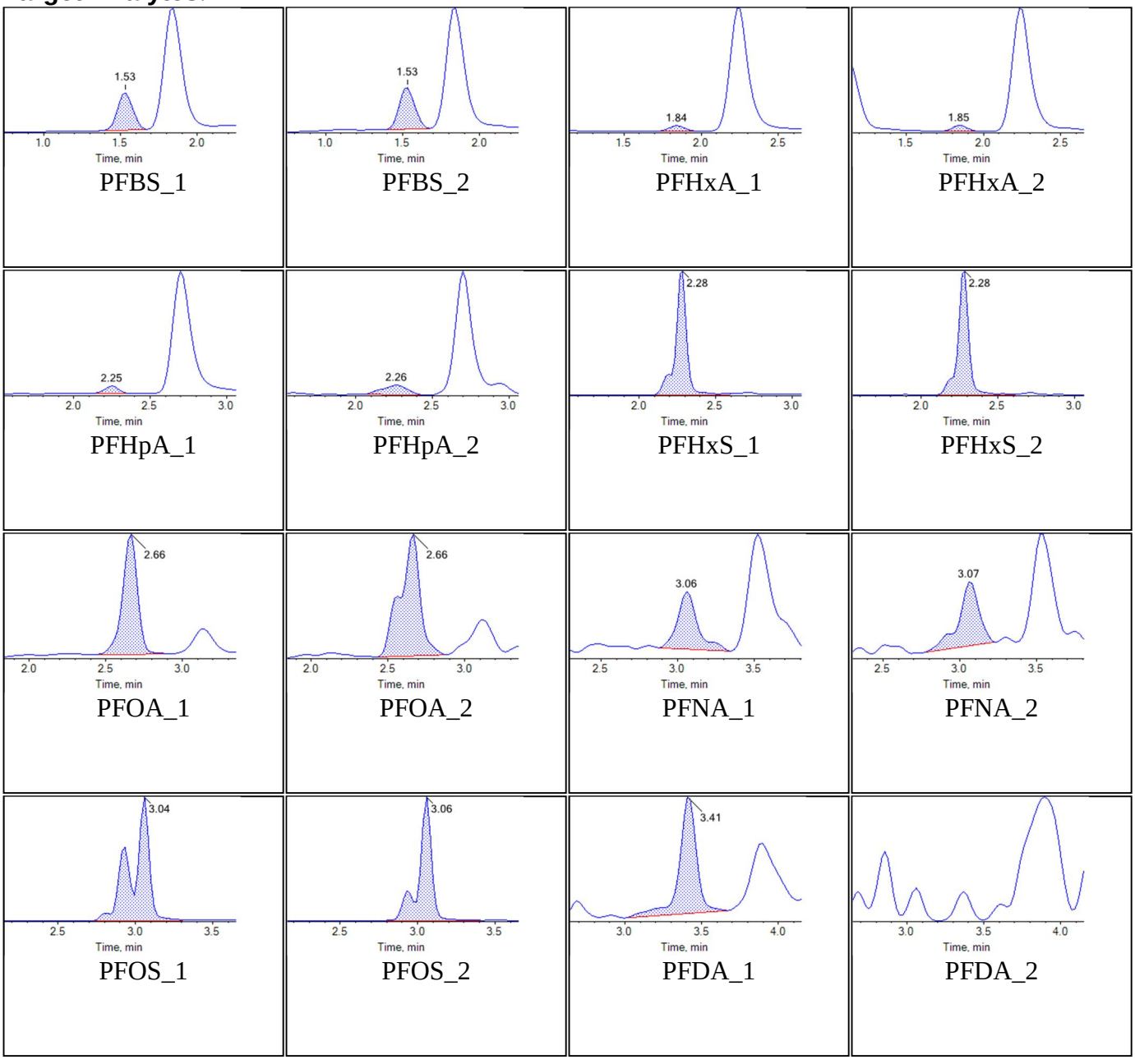

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Chromatogram Report

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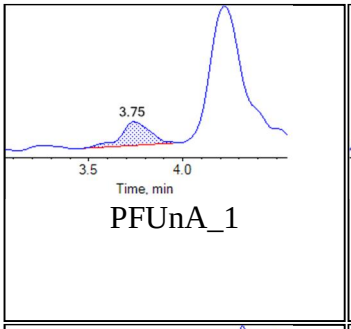

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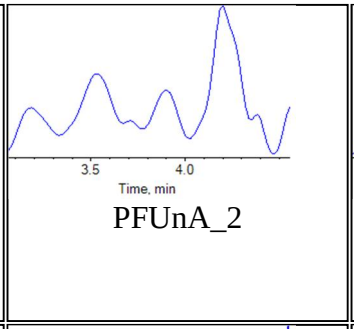
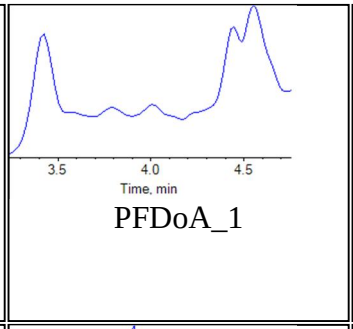
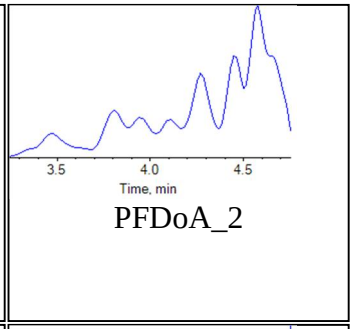


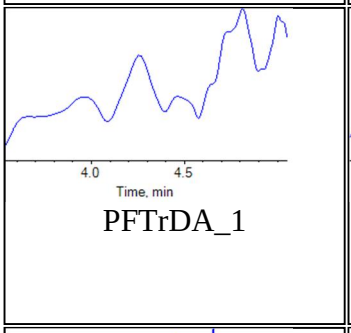
PFUnA_2



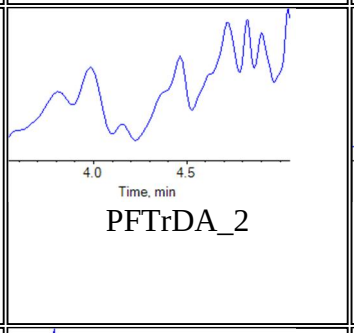
PFDoA_1



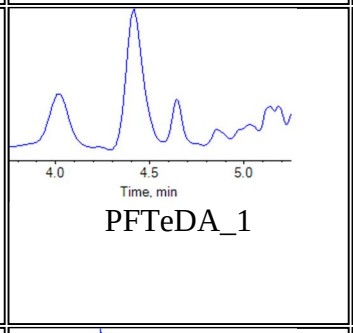
PFDoA_2



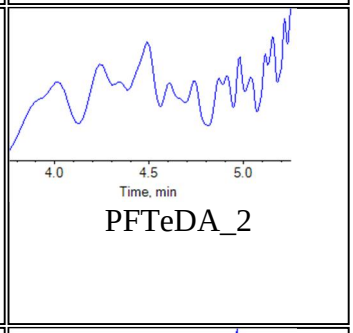
PFTrDA_1



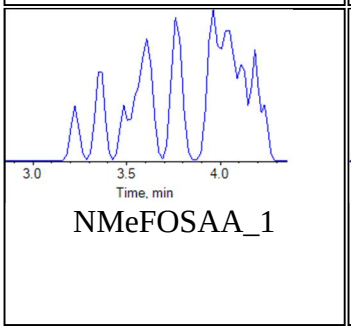
PFTrDA_2



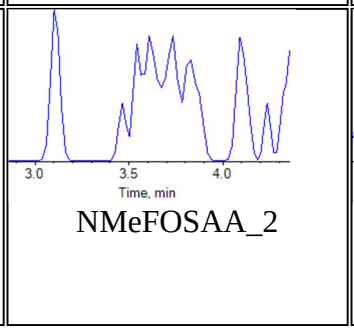
PFTeDA_1



PFTeDA_2



NMeFOSAA_1



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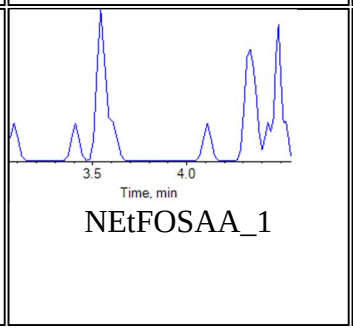
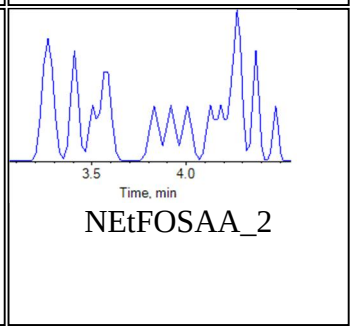
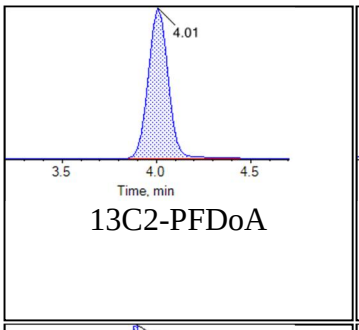


NEtFOSAA_1



NEtFOSAA_2

## Internal Standards:



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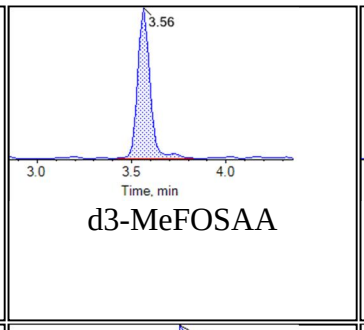
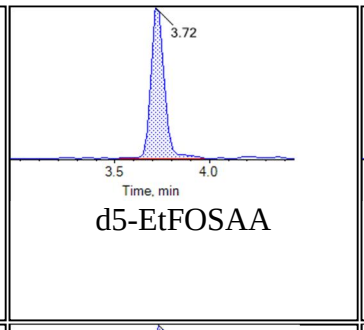


d3-MeFOSAA



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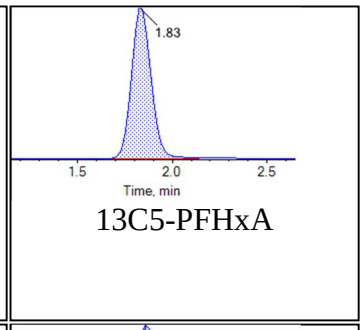

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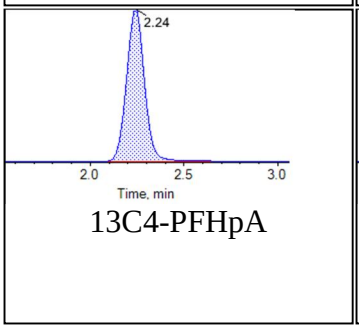

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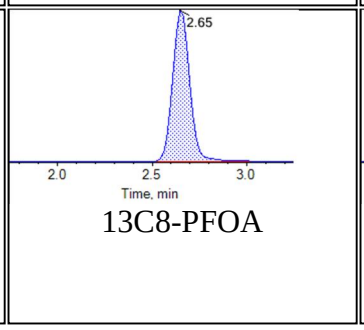
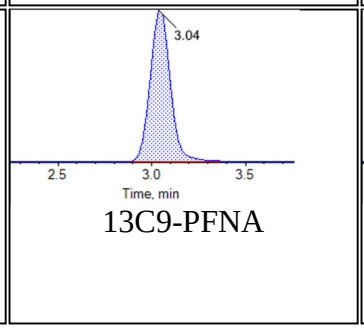


13C8-PFOA



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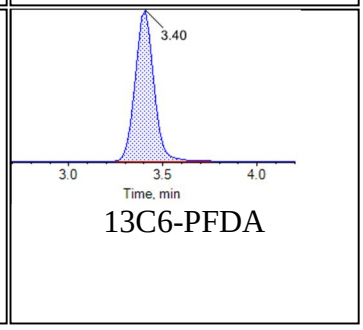

13C6-PFDA

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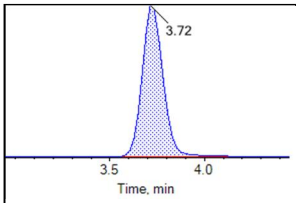
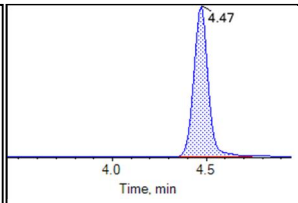



13C7-PFUnA

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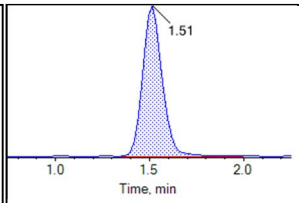
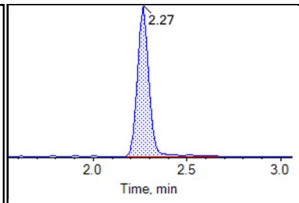



13C3-PFBS

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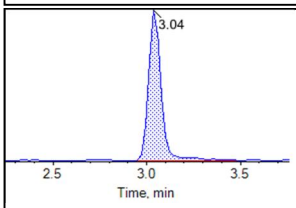


13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:56:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(11) | **Injection Vial** | 16 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:52:24 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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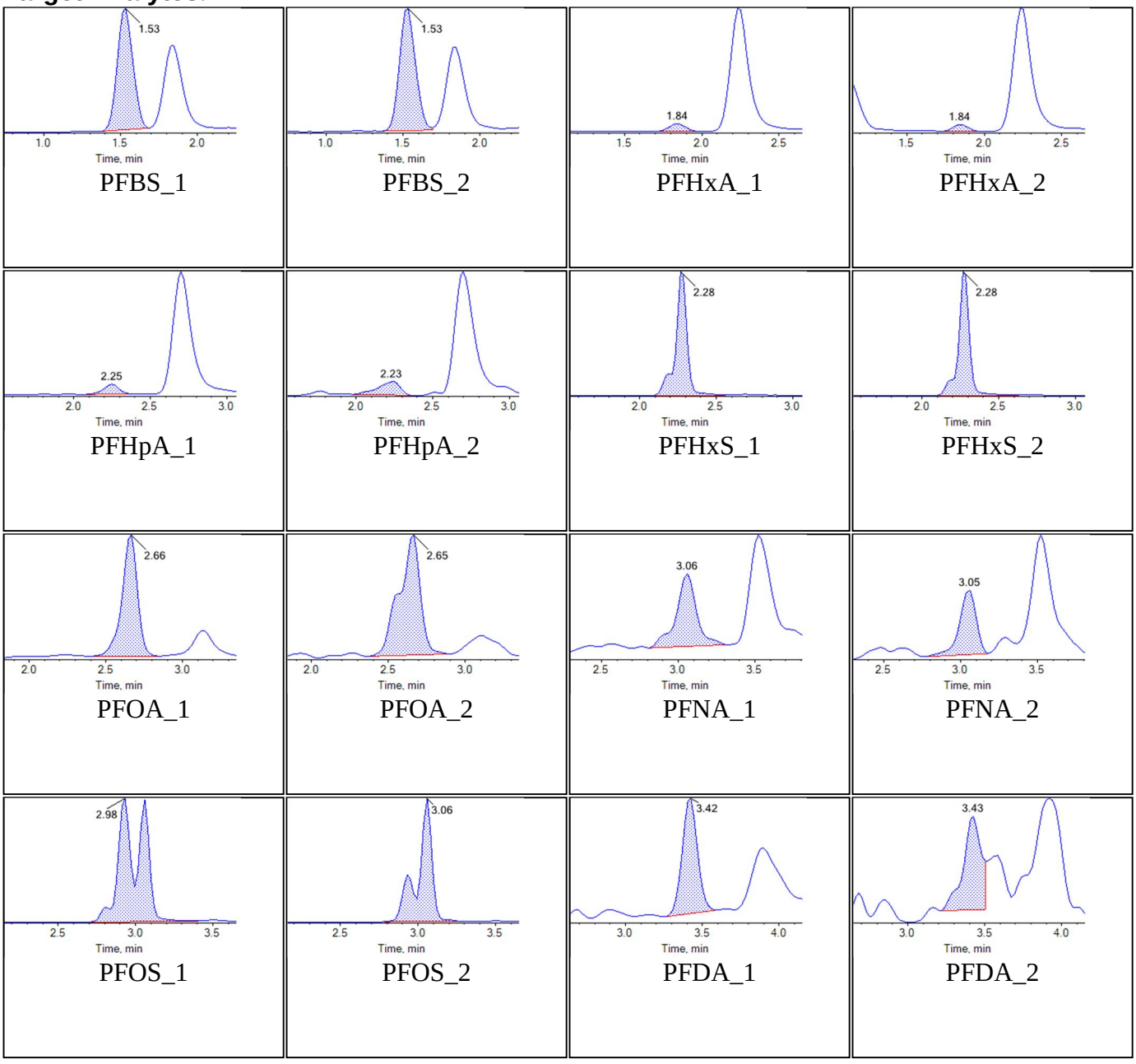

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Chromatogram Report

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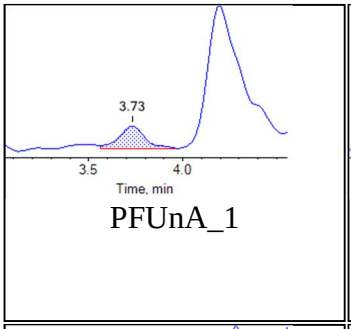

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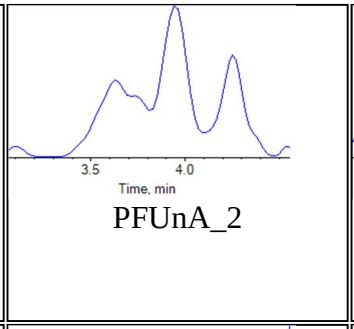

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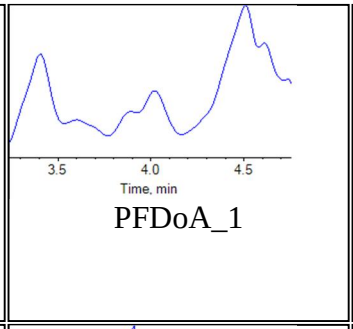

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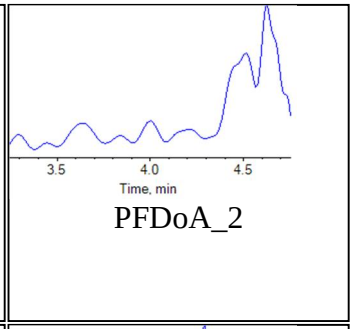

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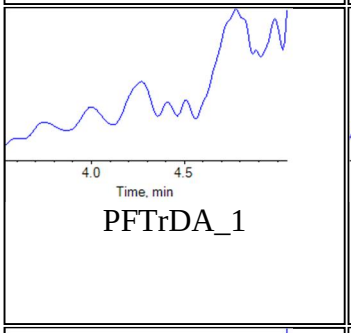

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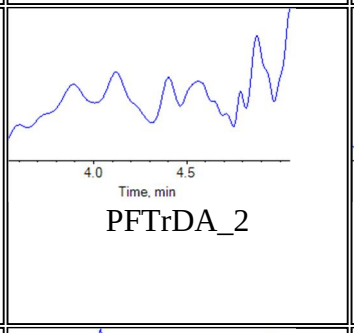

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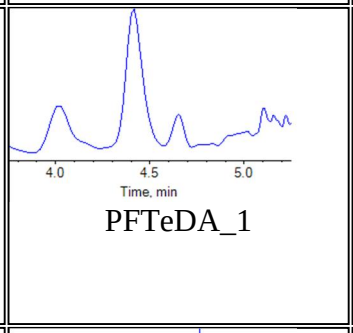

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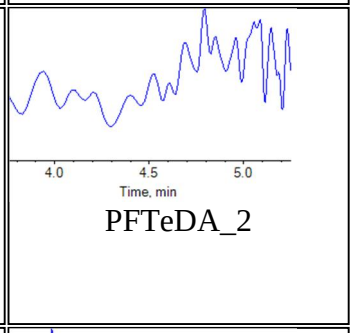

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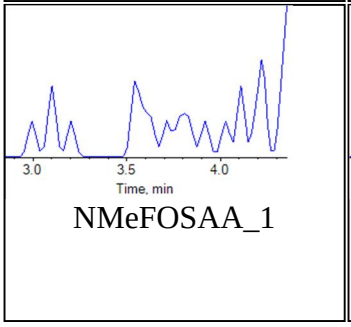

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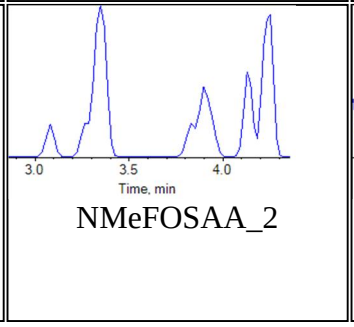

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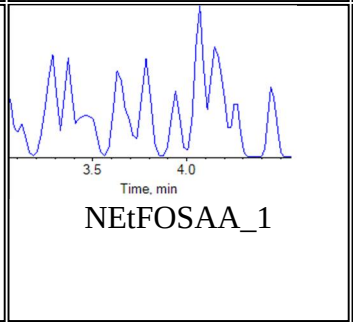

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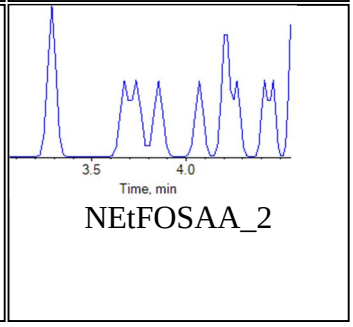

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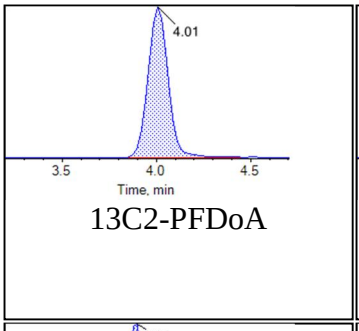

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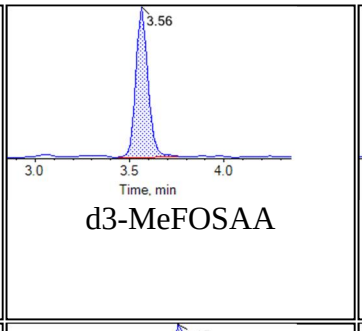
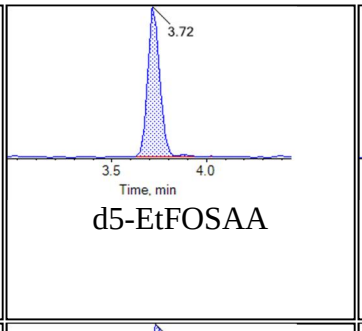
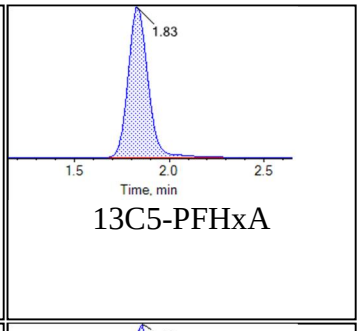


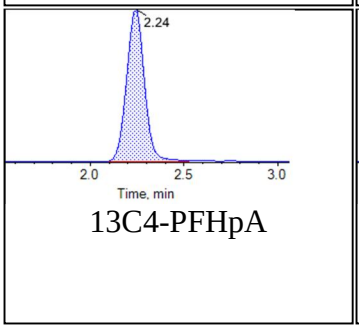
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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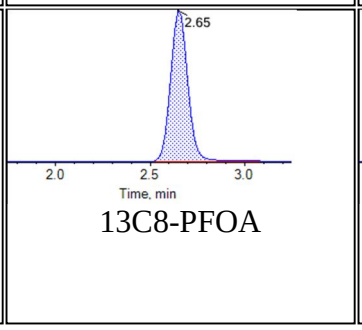
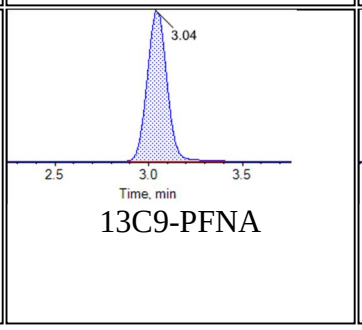
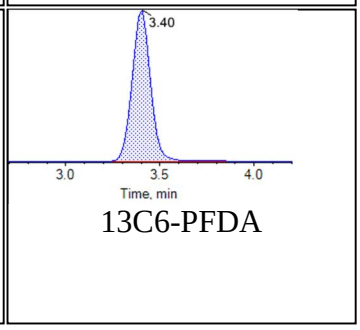


13C8-PFOA



13C9-PFNA



13C6-PFDA

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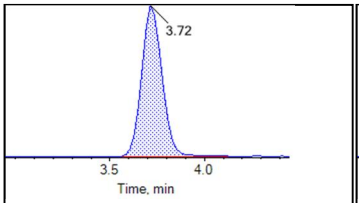
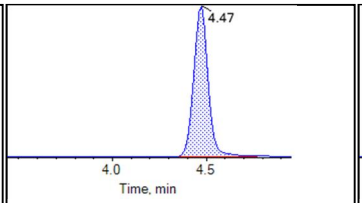



13C7-PFUnA

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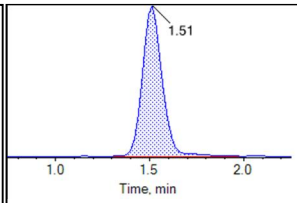
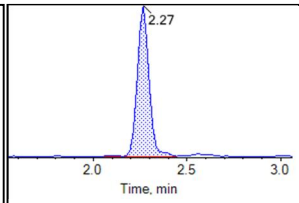



13C3-PFBS

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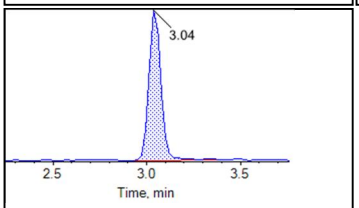


13C8-PFOS

BATTELLE

Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(11) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:03:15 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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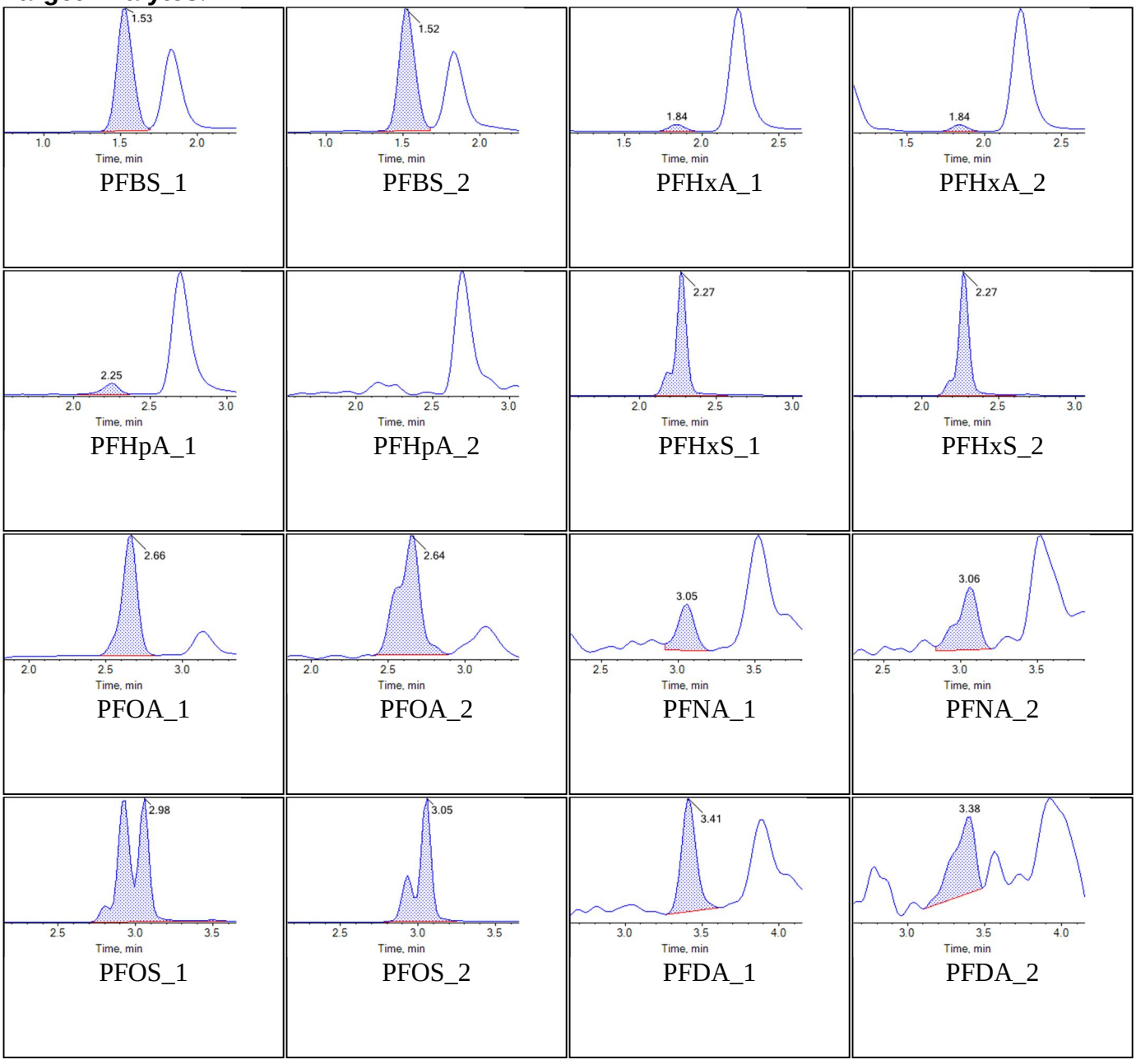

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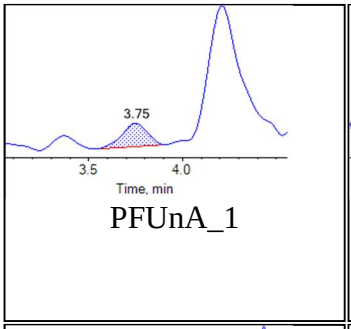

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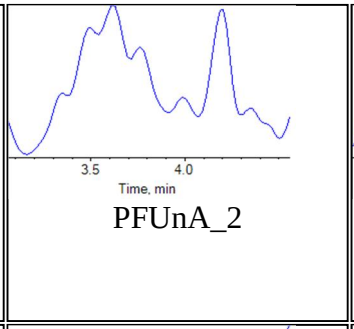

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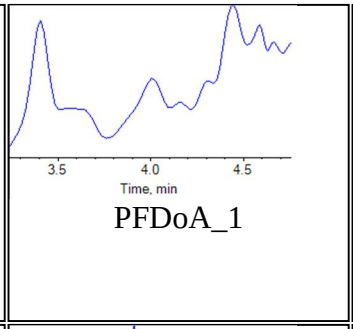

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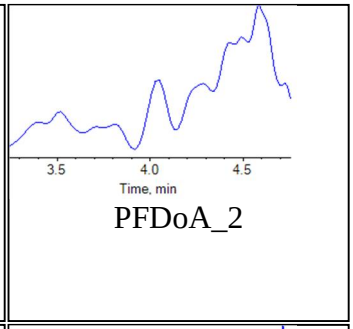

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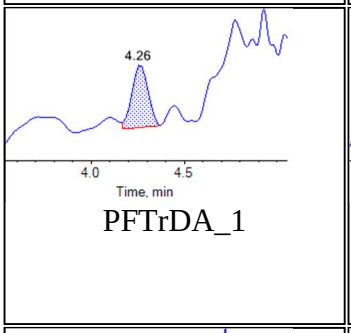

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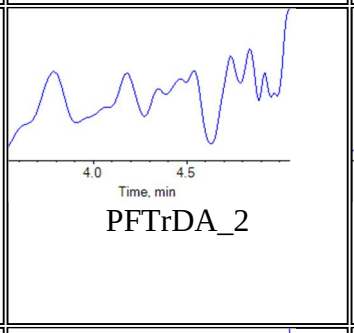

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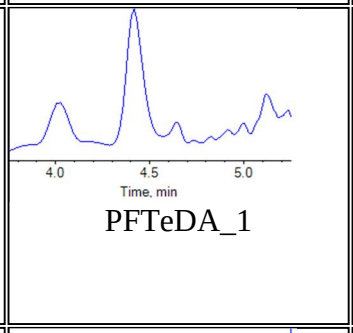

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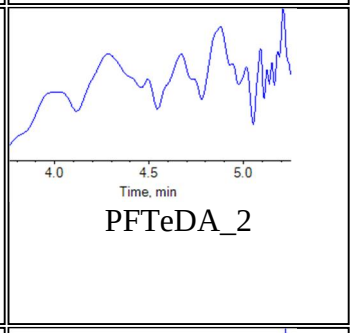

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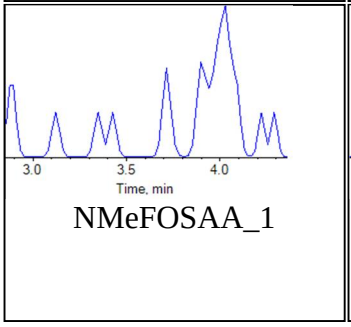

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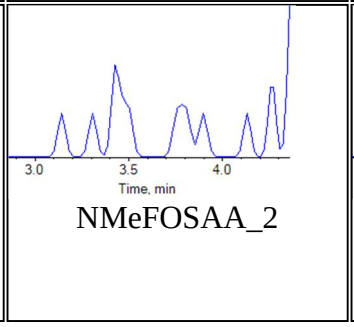

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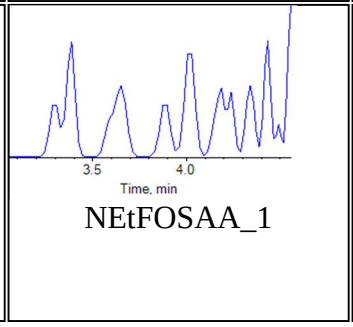

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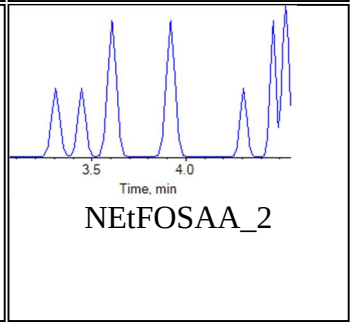

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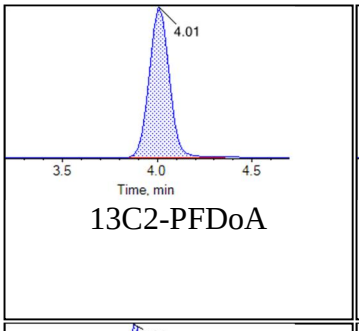

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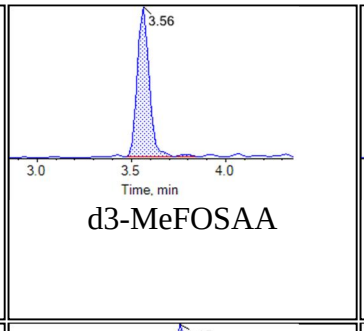

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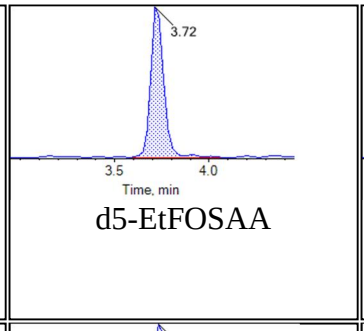

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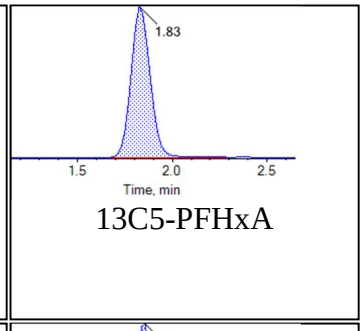

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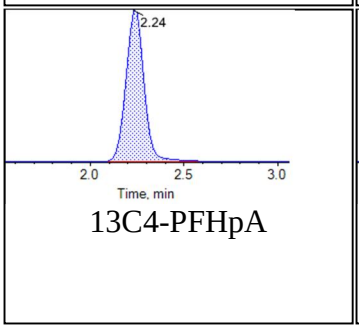

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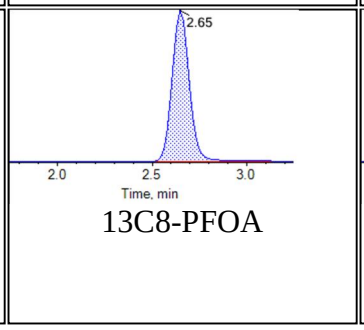

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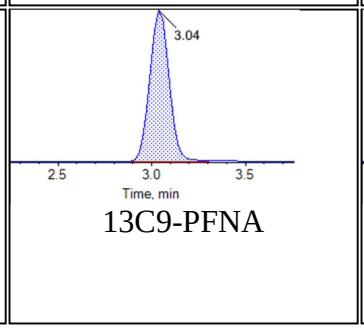
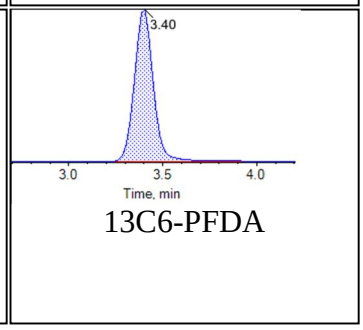


13C9-PFNA



13C6-PFDA

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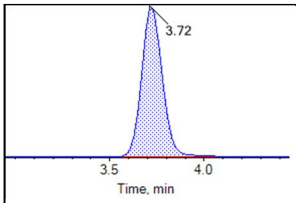
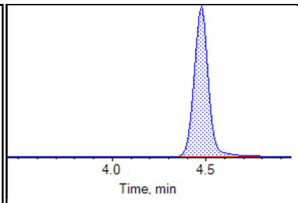



13C7-PFUnA

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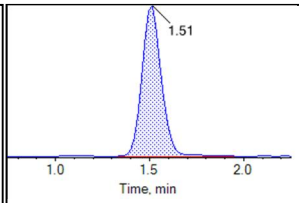


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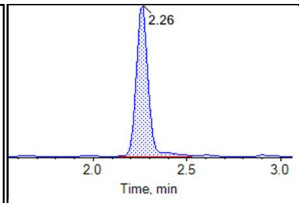


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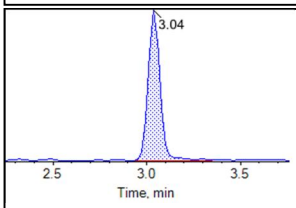


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(11) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:14:07 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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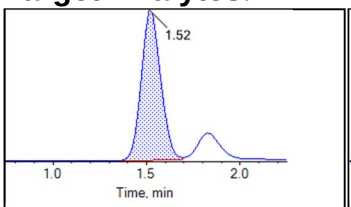

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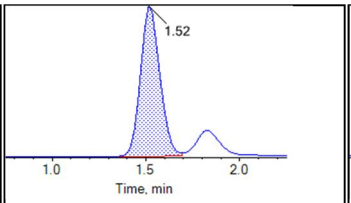

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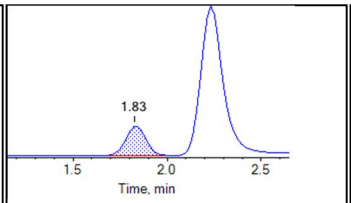

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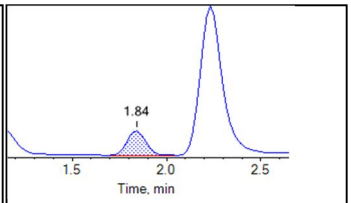

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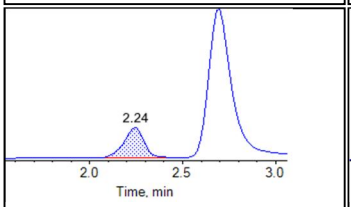

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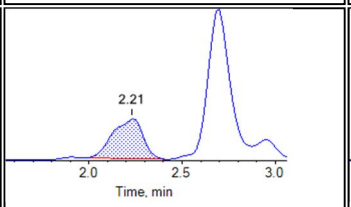

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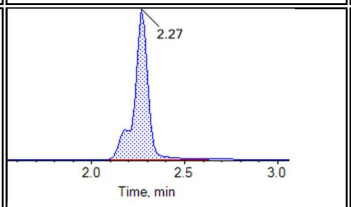

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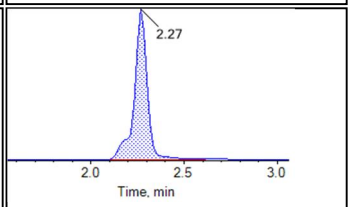

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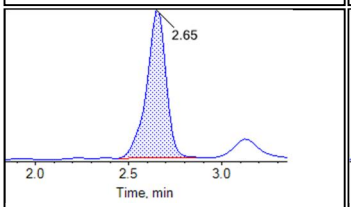

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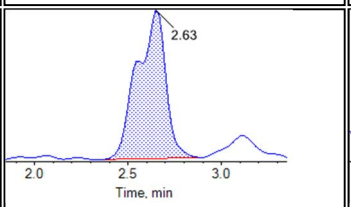

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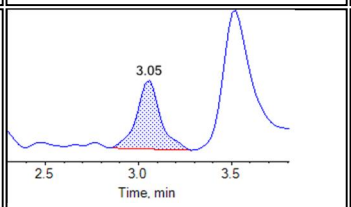

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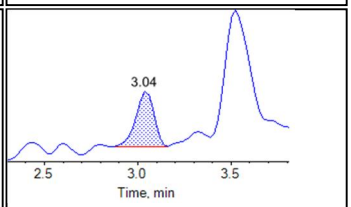

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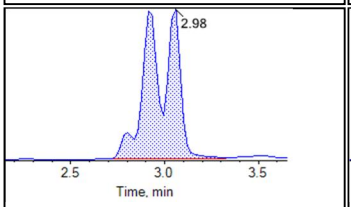

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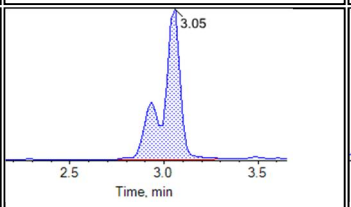

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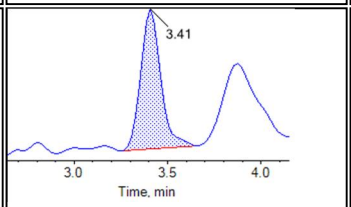

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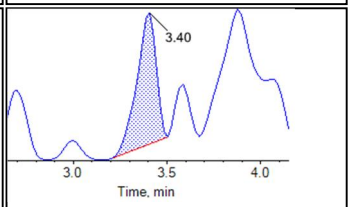

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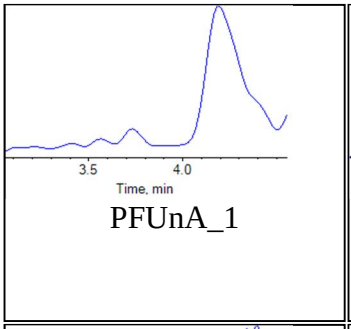

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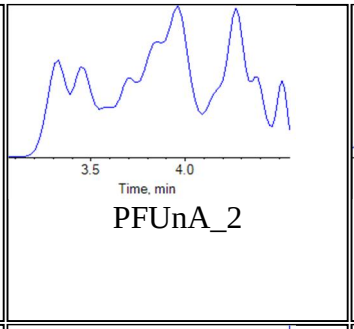

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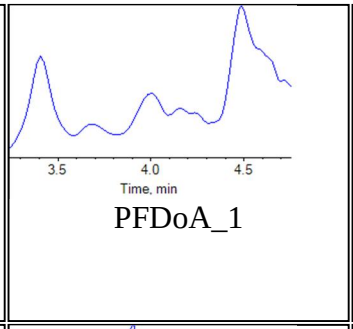

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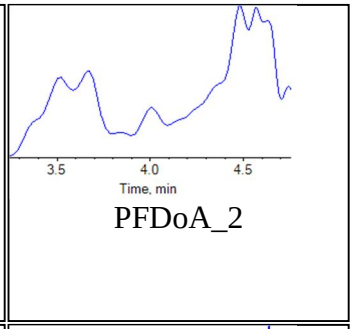

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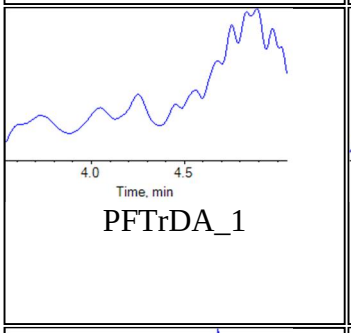

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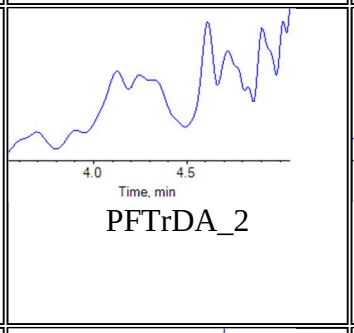

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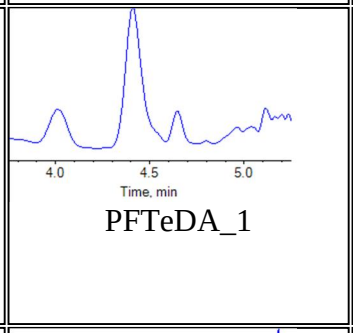

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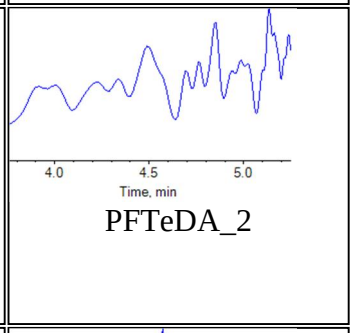

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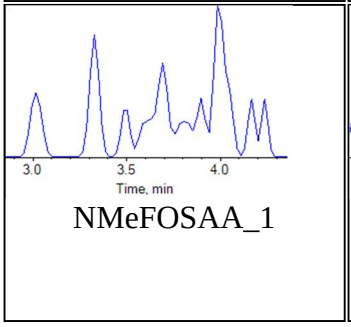

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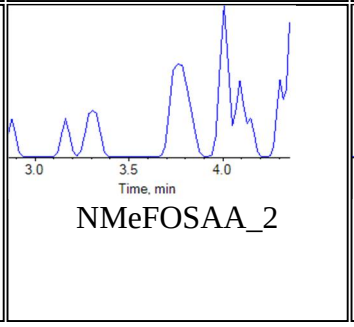

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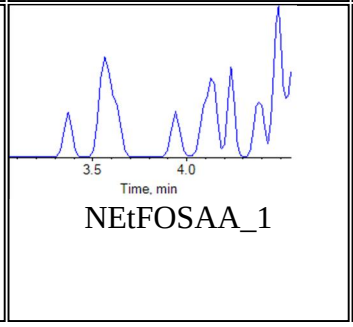

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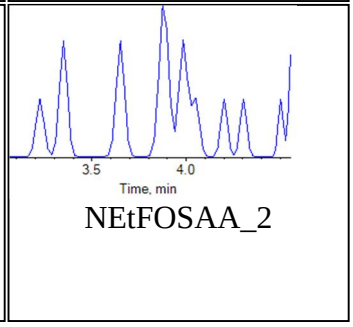

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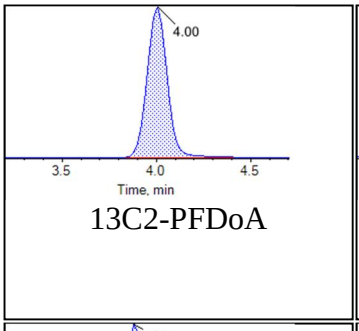

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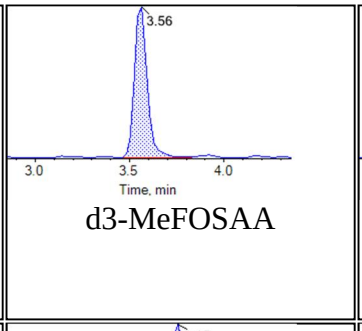

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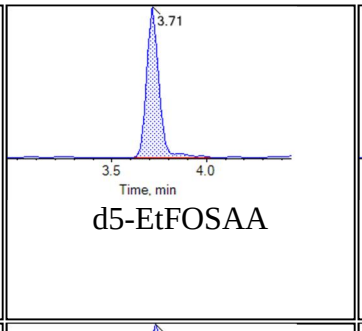

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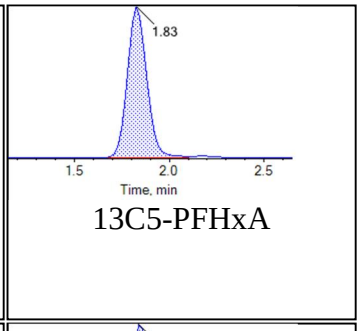

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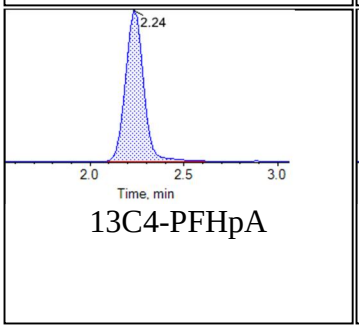

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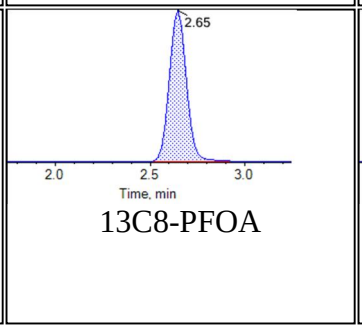

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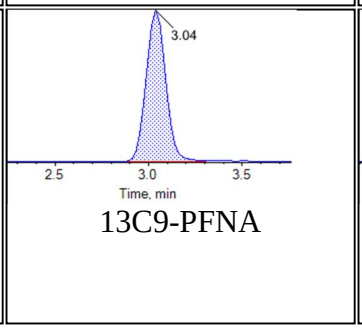

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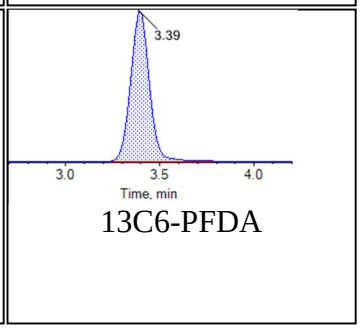

13C6-PFDA

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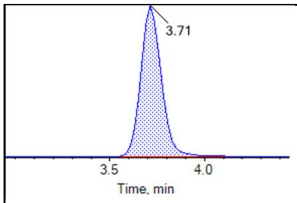
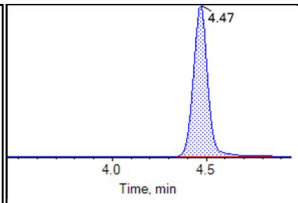
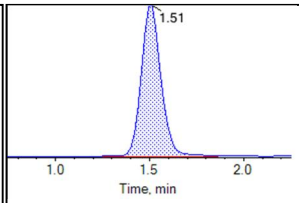


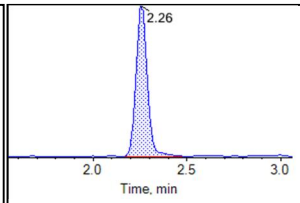

13C7-PFUnA



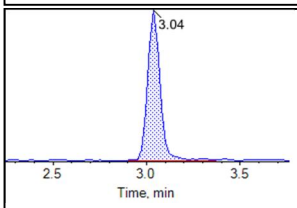

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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Printed: 22/10/2018 1:56:37 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:24:58 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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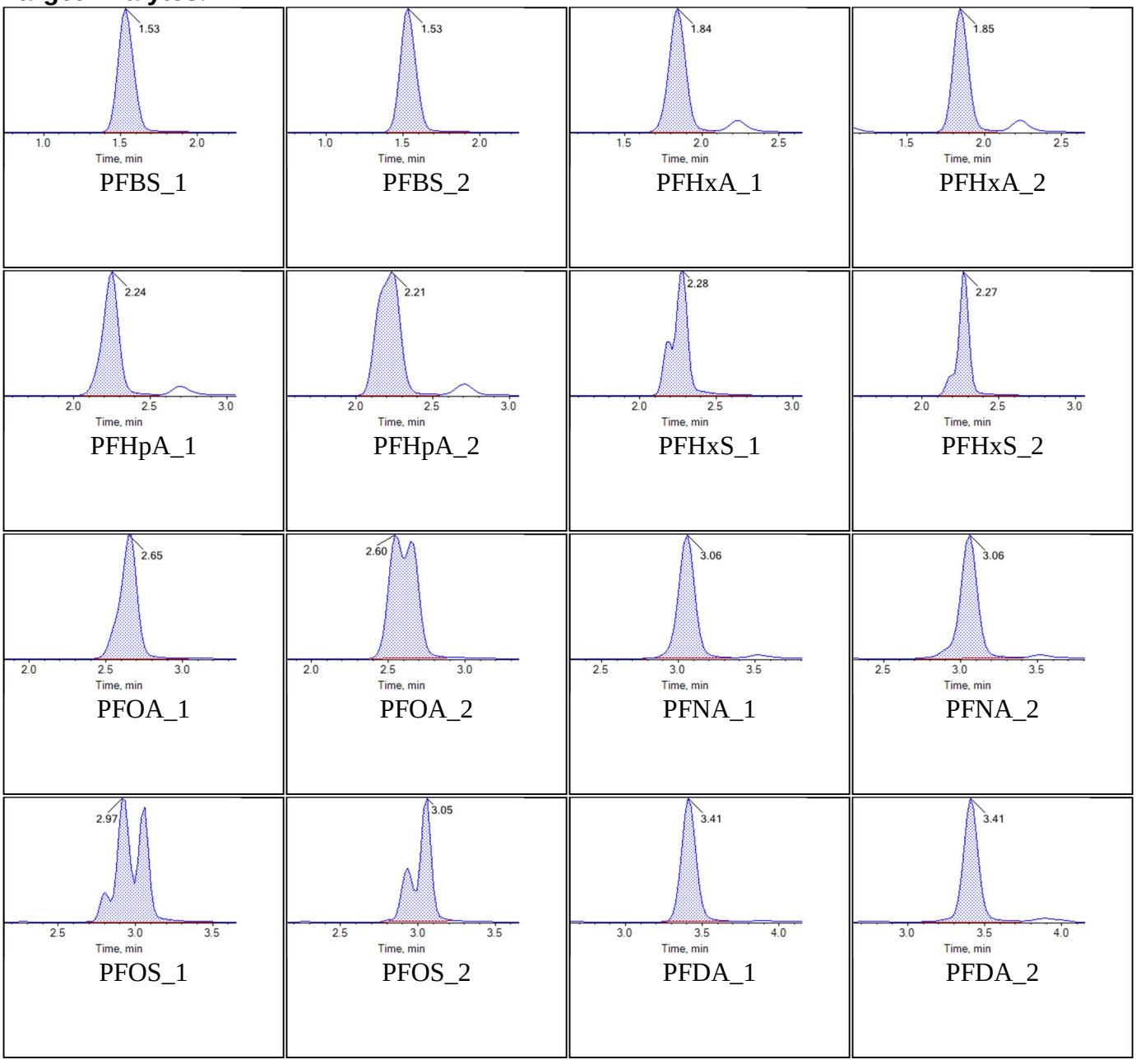

BATTELLE

Chromatogram Report

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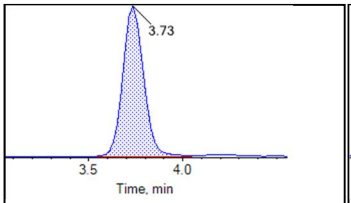

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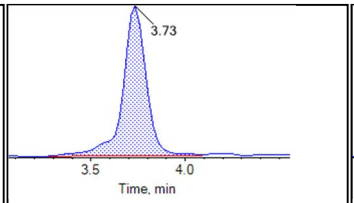
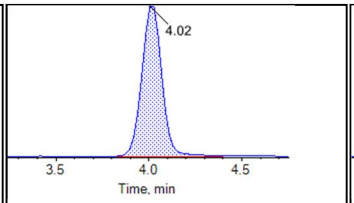
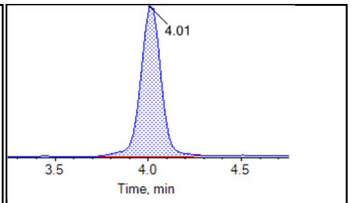


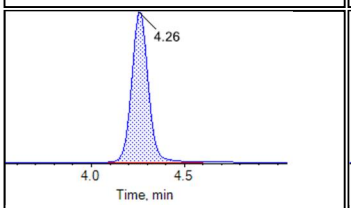
PFUnA_2



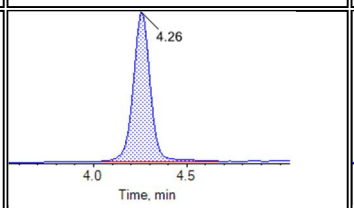
PFDoA_1



PFDoA_2



PFTrDA_1



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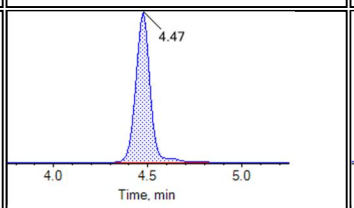
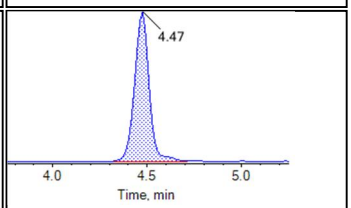


PFTeDA_1



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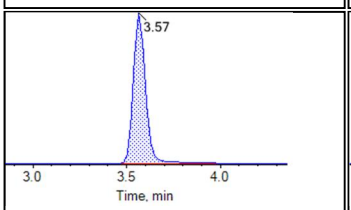
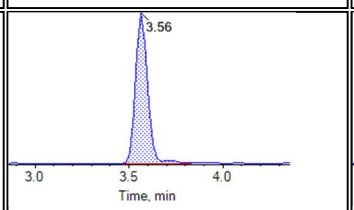


NMeFOSAA_1



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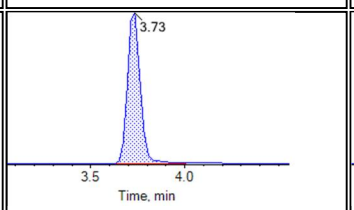
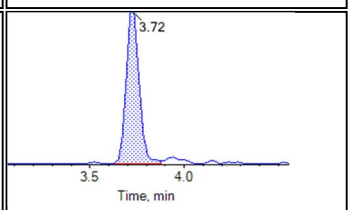


NEtFOSAA_1



NEtFOSAA_2

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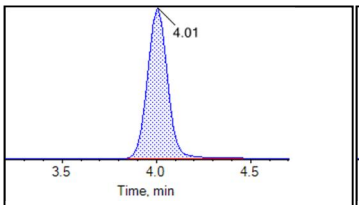

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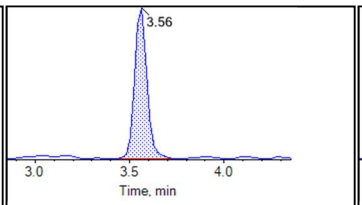
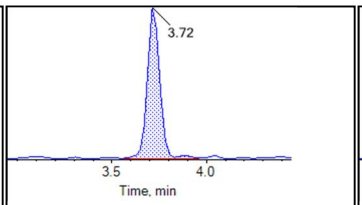
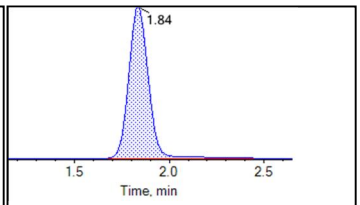


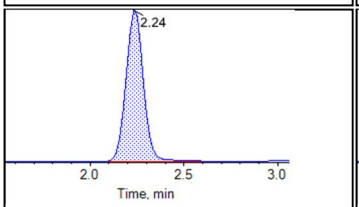
d3-MeFOSAA



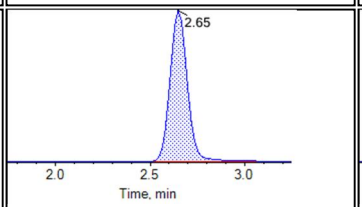
d5-EtFOSAA



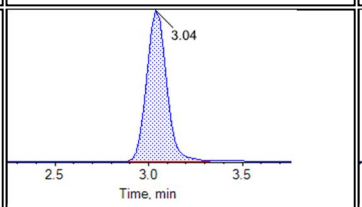
13C5-PFHxA



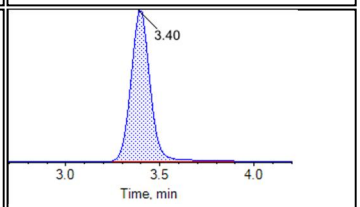
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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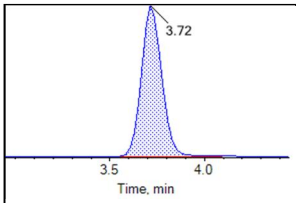
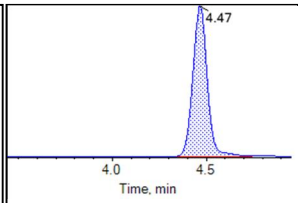



13C7-PFUnA

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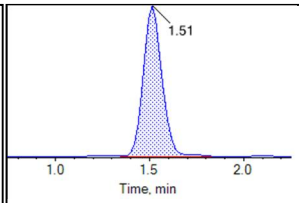
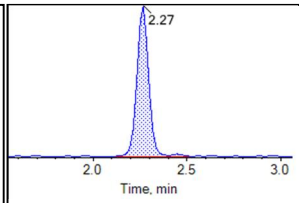
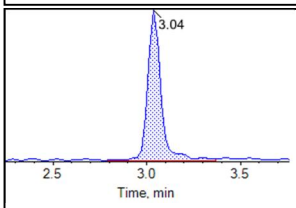



13C3-PFBS




13C3-PFHxS




13C8-PFOS

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Chromatogram Report

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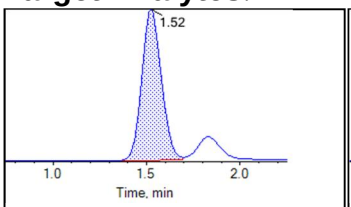
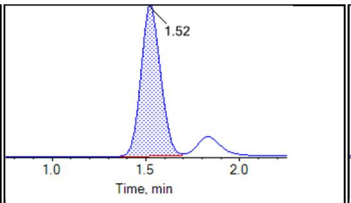
| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(9) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:35:49 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

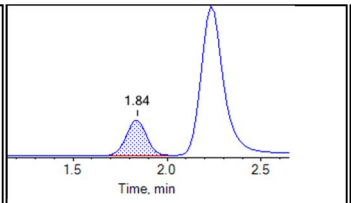
### Target Analytes:



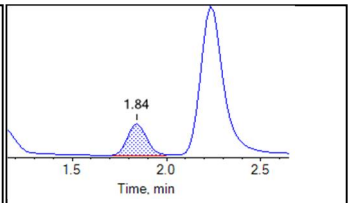
PFBS_1



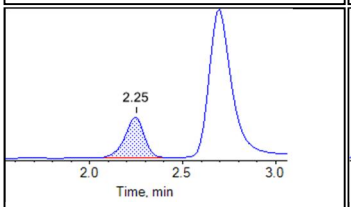
PFBS_2



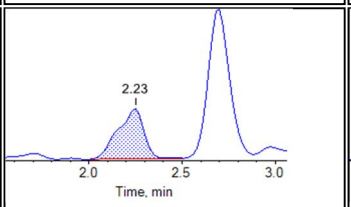
PFHxA_1



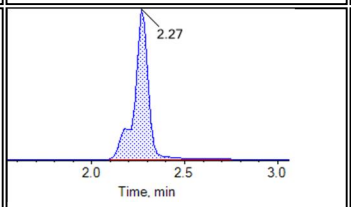
PFHxA_2



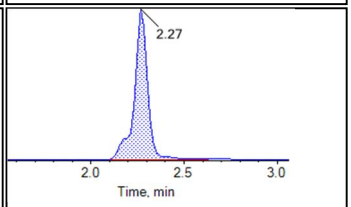
PFHpA_1



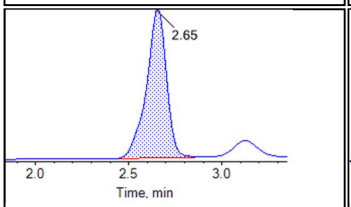
PFHpA_2



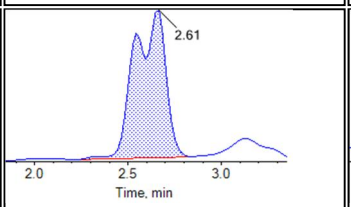
PFHxS_1



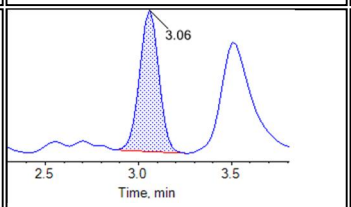
PFHxS_2



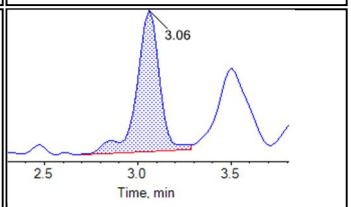
PFOA_1



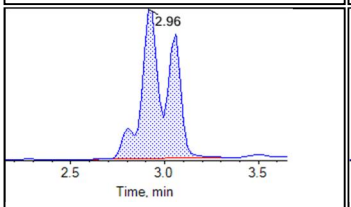
PFOA_2



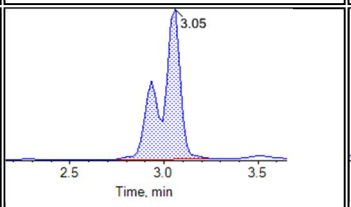
PFNA_1



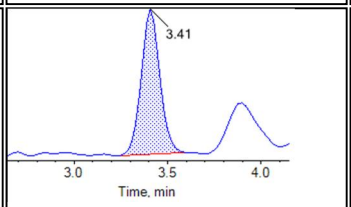
PFNA_2



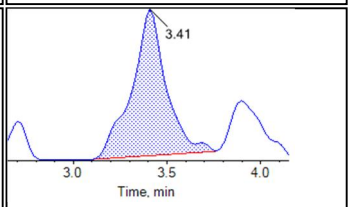
PFOS_1



PFOS_2



PFDA_1



PFDA_2

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Chromatogram Report

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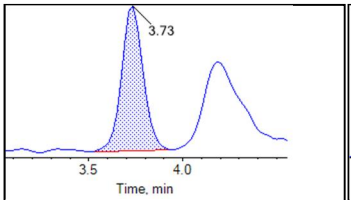
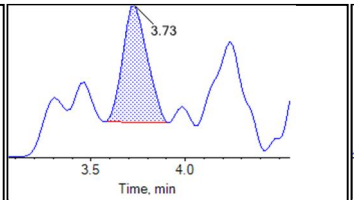
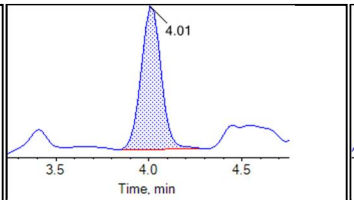


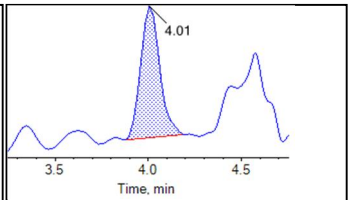
PFUnA_1



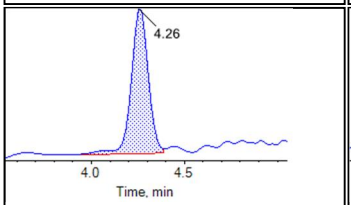
PFUnA_2



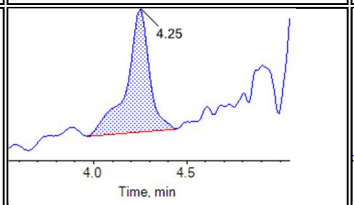
PFDoA_1



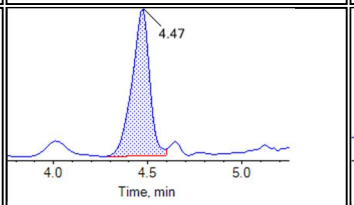
PFDoA_2



PFTrDA_1



PFTrDA_2



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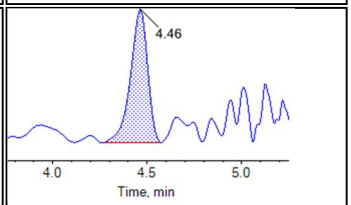

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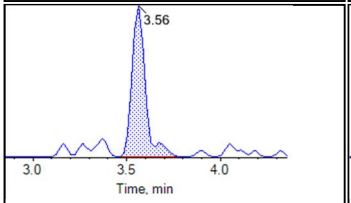
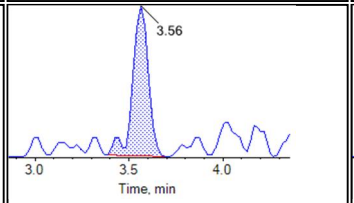


NMeFOSAA_1



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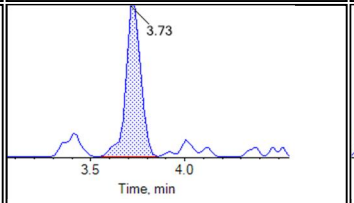
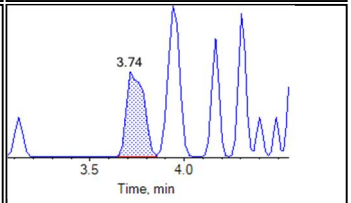


NEtFOSAA_1



NEtFOSAA_2

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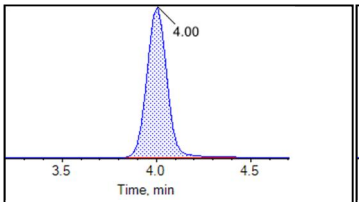
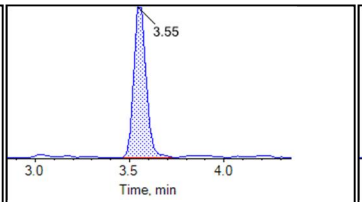
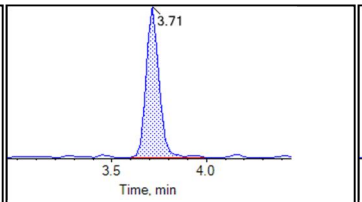


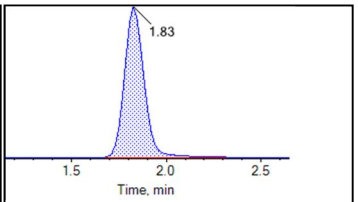
13C2-PFDoA



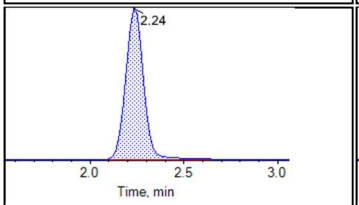
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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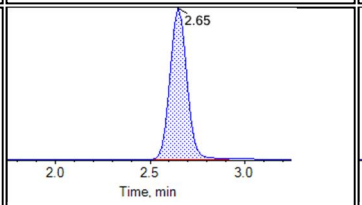
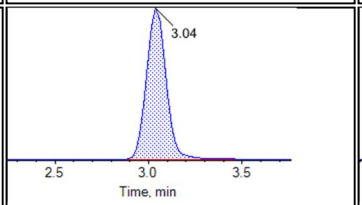
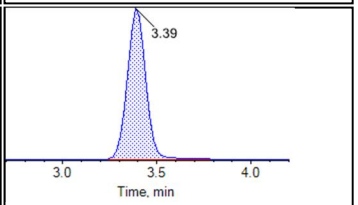


13C8-PFOA



13C9-PFNA



13C6-PFDA

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Chromatogram Report

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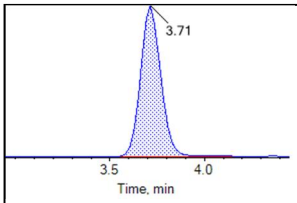
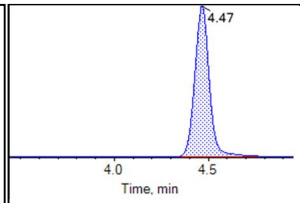
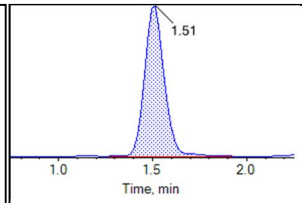


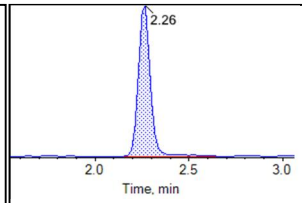

13C7-PFUnA



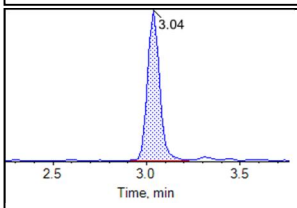

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:56:47 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(3) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:46:43 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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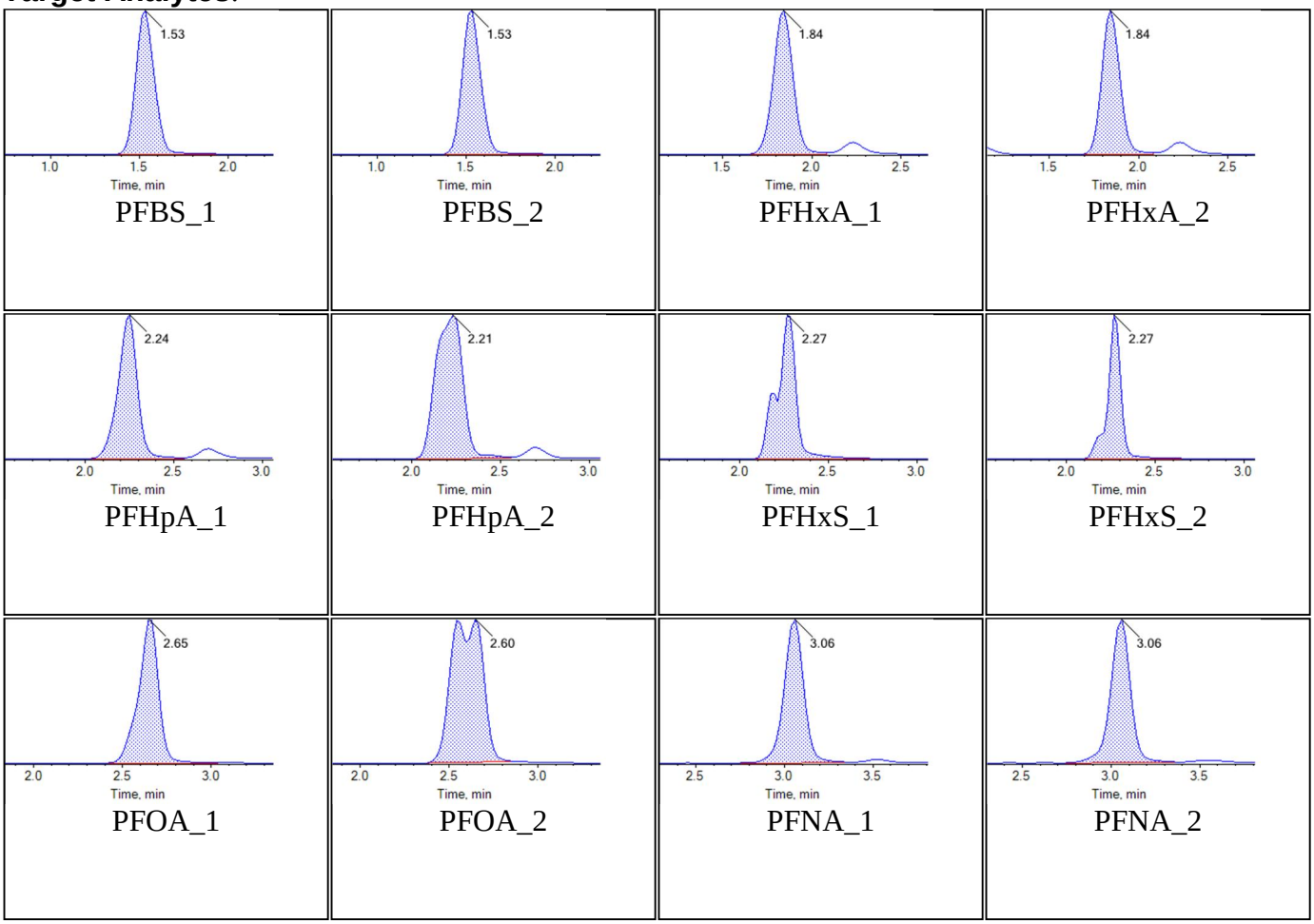

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Chromatogram Report

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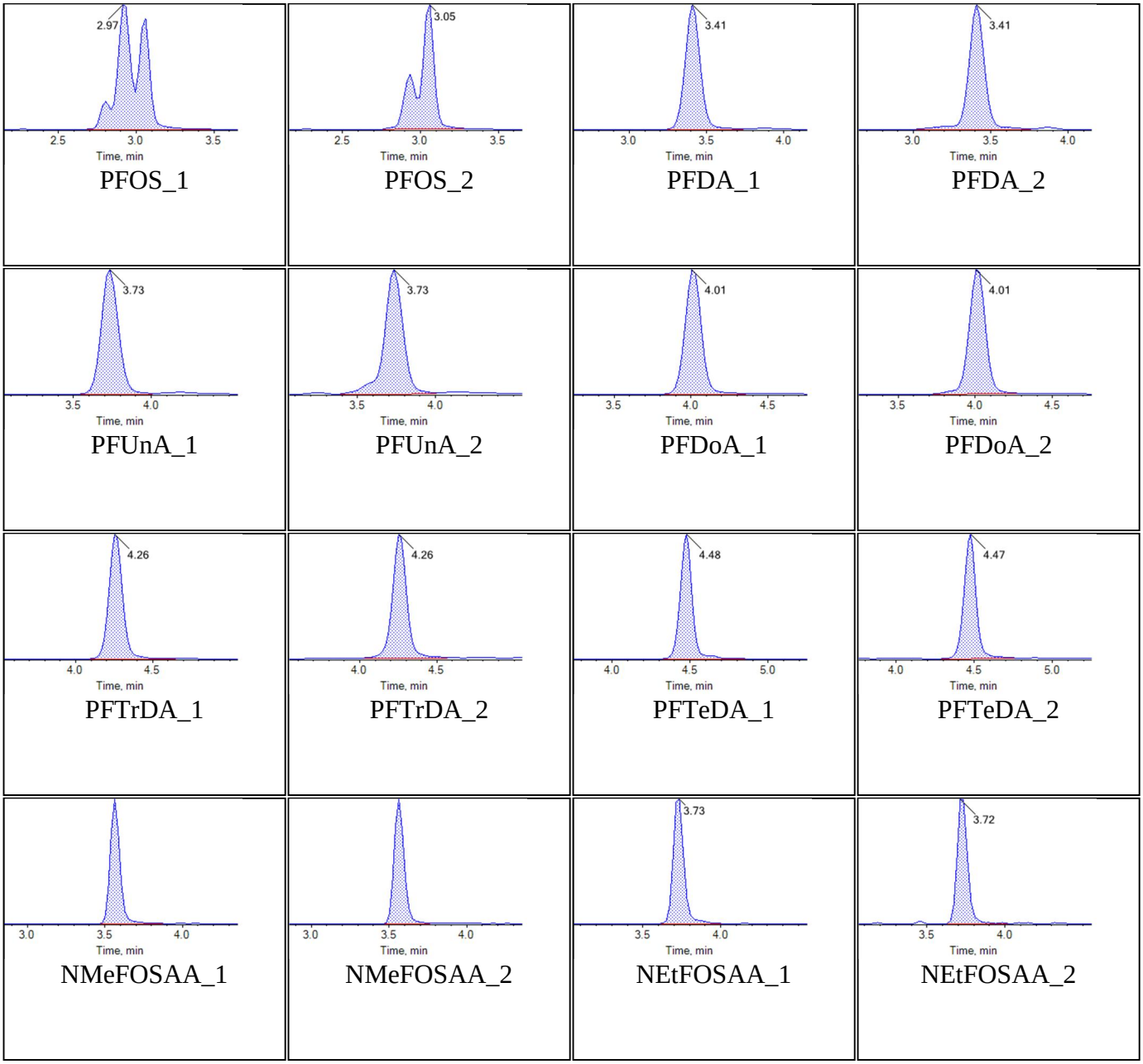
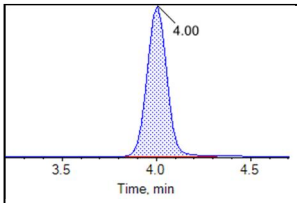



**Internal Standards:**

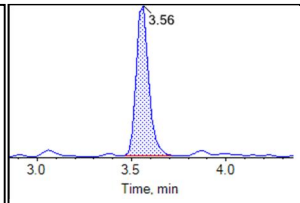
BATTELLE

Chromatogram Report

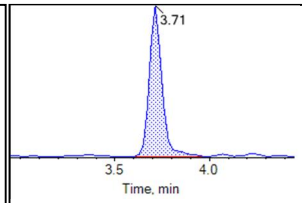
Created with Analyst Reporter
Printed: 22/10/2018 1:56:47 PM



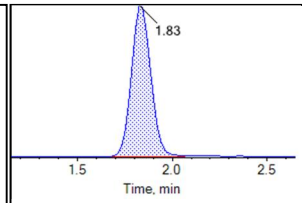

13C2-PFDoA



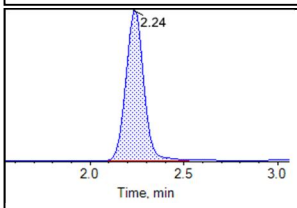

d3-MeFOSAA



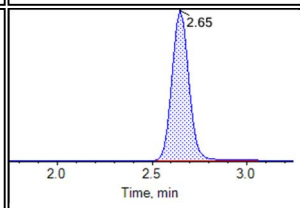

d5-EtFOSAA



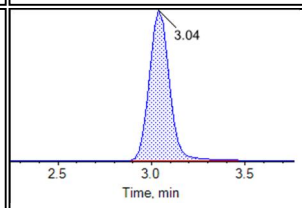

13C5-PFHxA



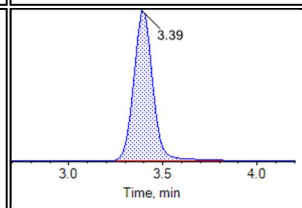

13C4-PFHpA



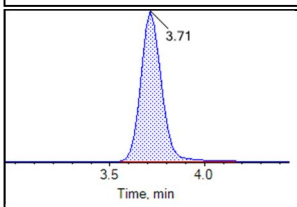

13C8-PFOA



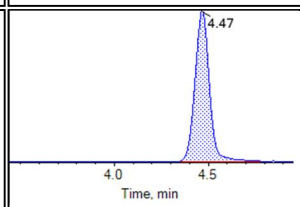

13C9-PFNA



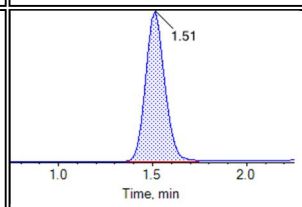

13C6-PFDA



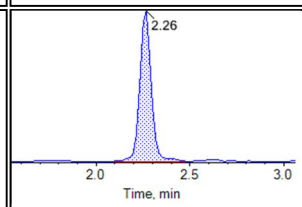

13C7-PFUnA



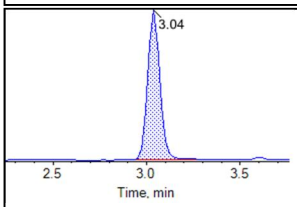

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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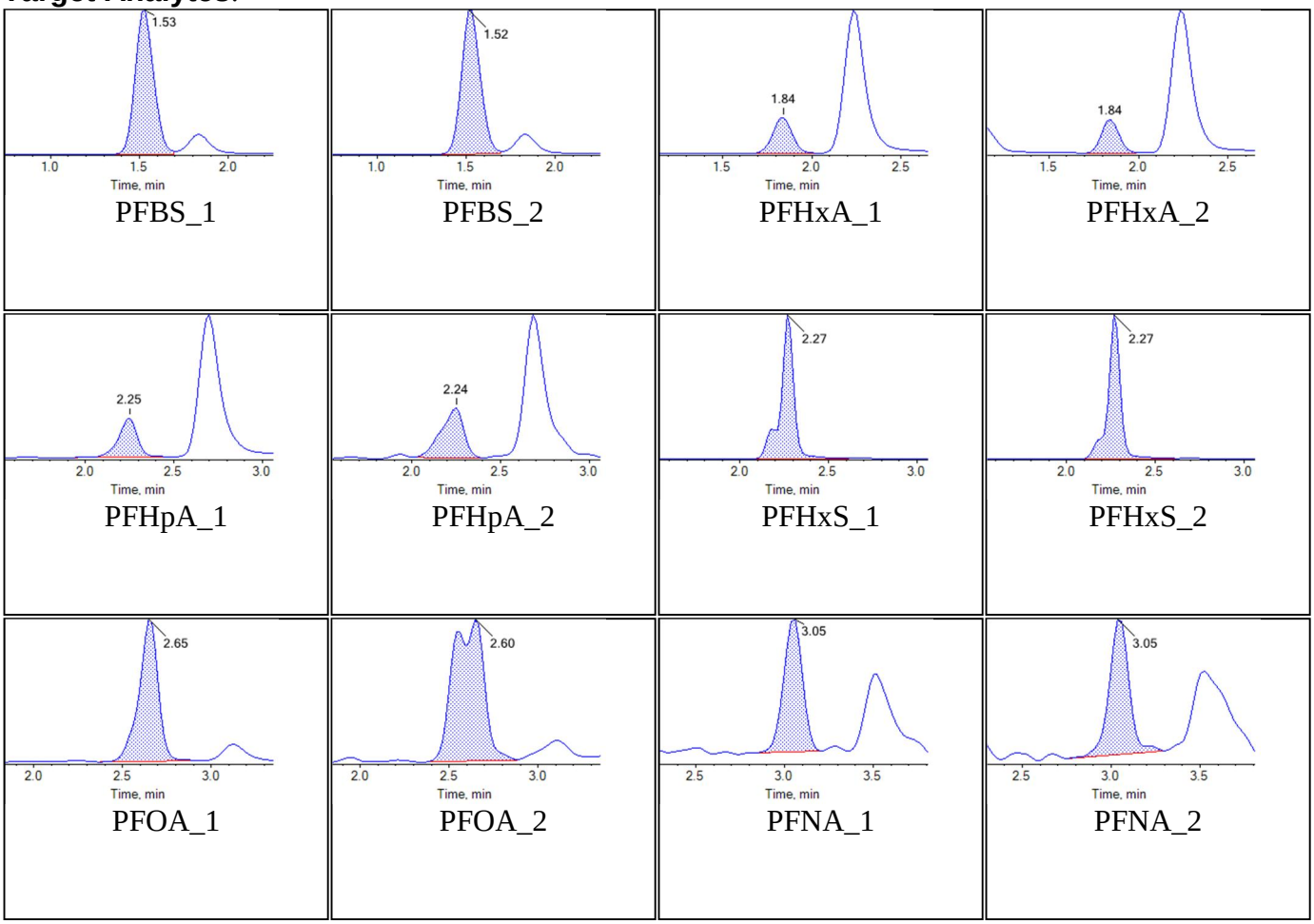
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:56:52 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(9) | **Injection Vial** | 22 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:57:34 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



BATTELLE

Chromatogram Report

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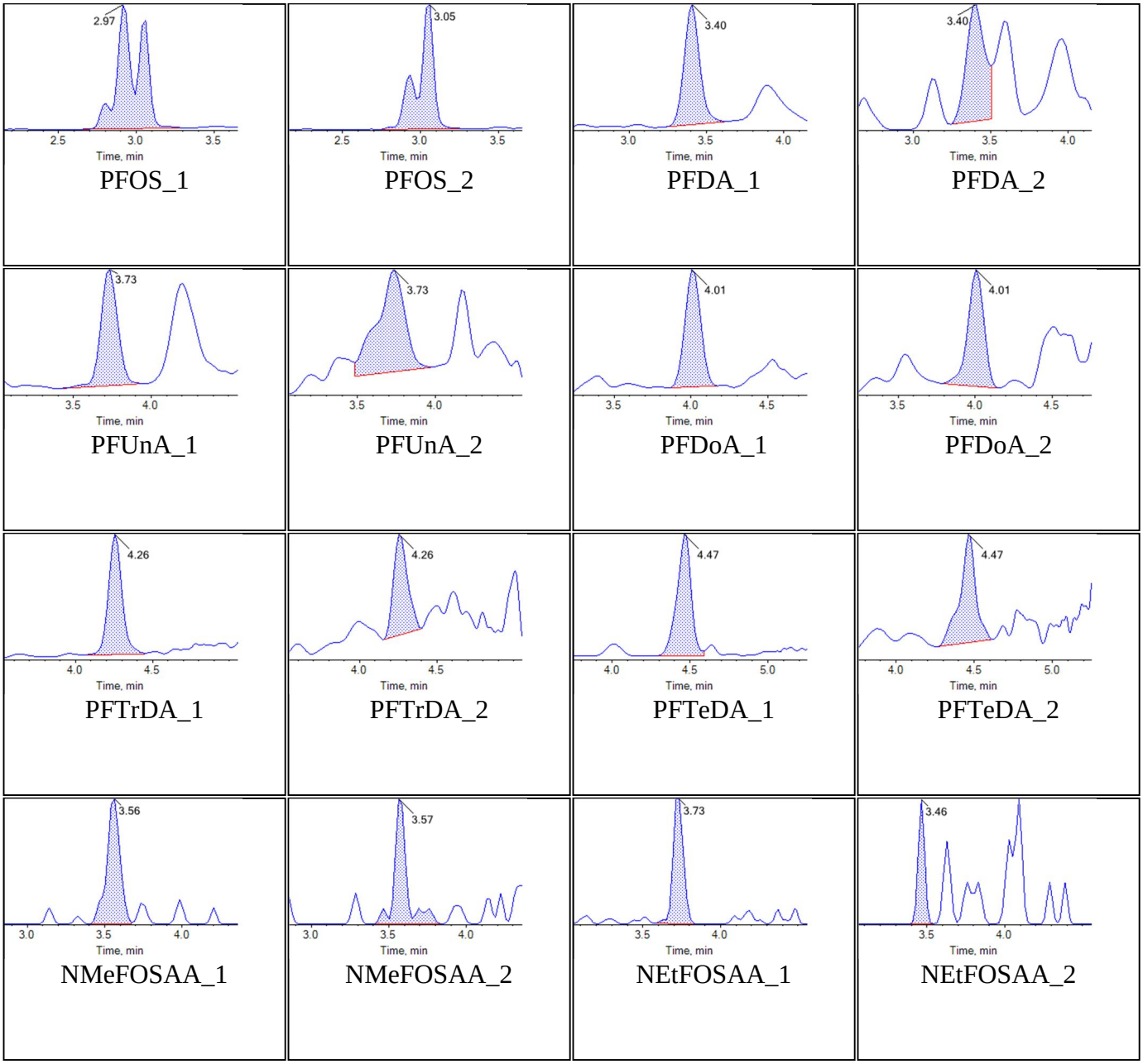


**Internal Standards:**

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Chromatogram Report

Created with Analyst Reporter
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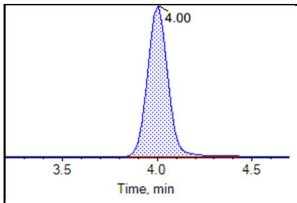
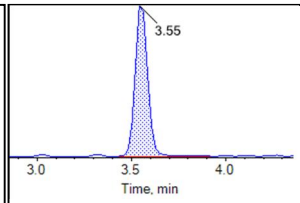
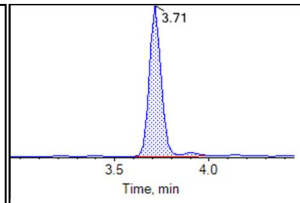


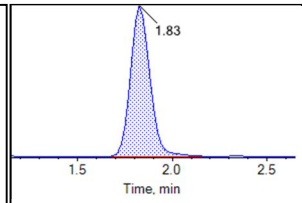

13C2-PFDoA




d3-MeFOSAA




d5-EtFOSAA

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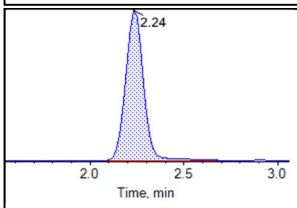
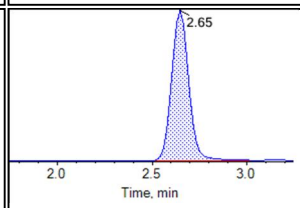



13C4-PFHpA

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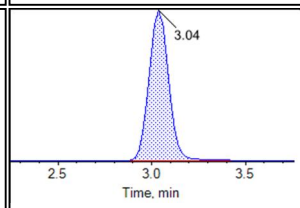
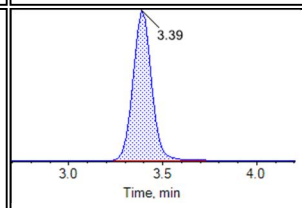
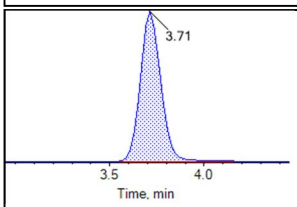


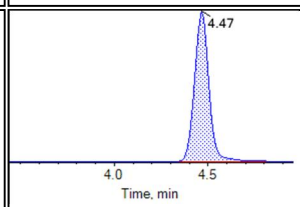

13C9-PFNA



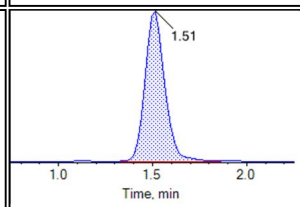

13C6-PFDA



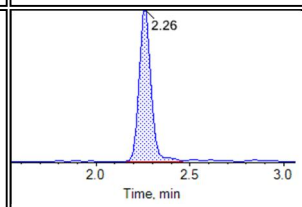

13C7-PFUnA



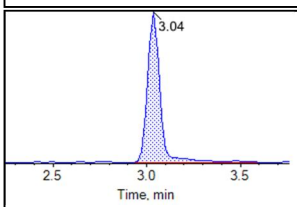

13C2-PFTeDA




13C3-PFBS




13C3-PFHxS




13C8-PFOS

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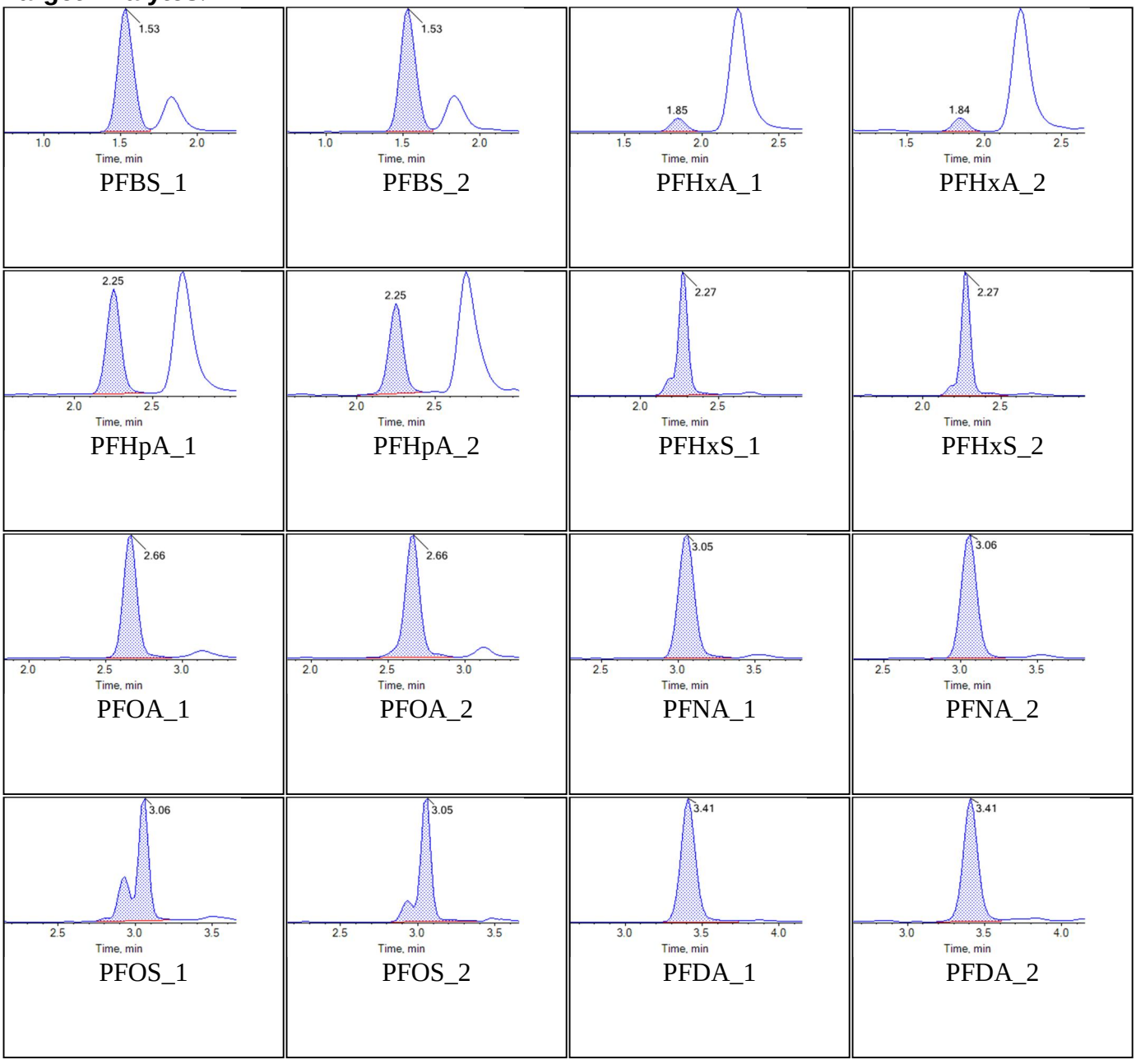
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:57:02 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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Chromatogram Report

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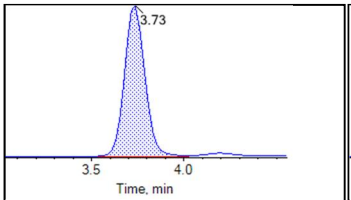

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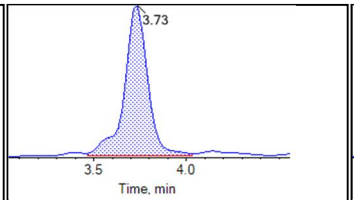

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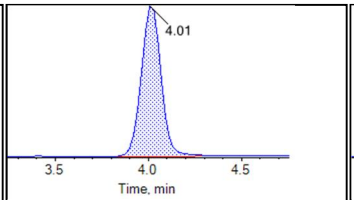

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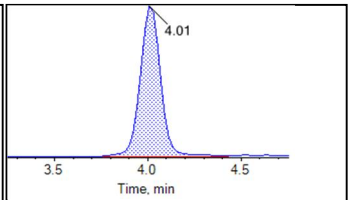

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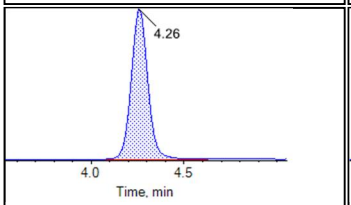

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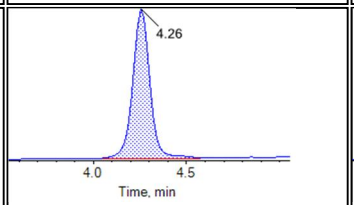

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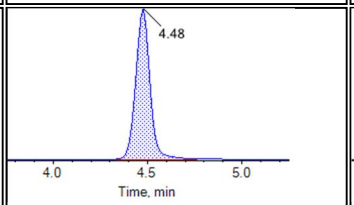

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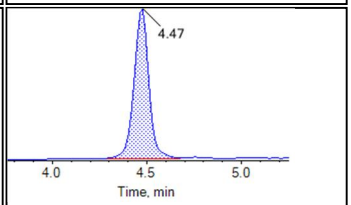

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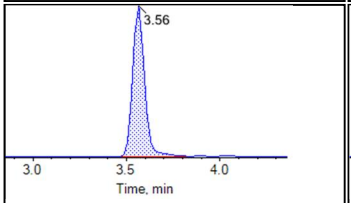

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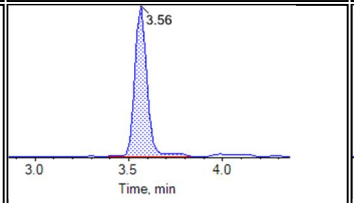

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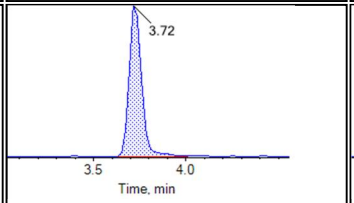

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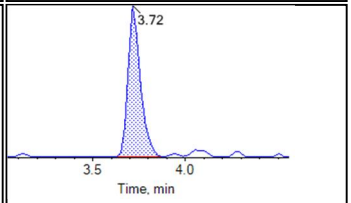

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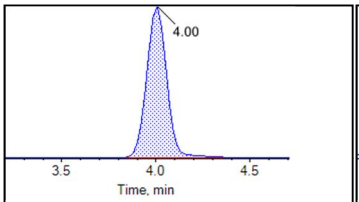

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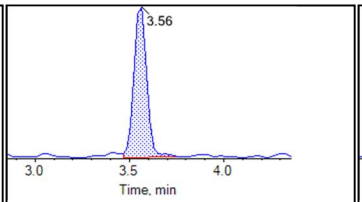

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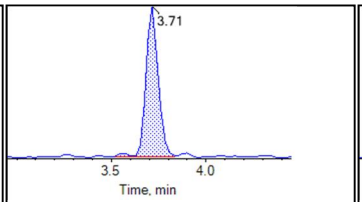
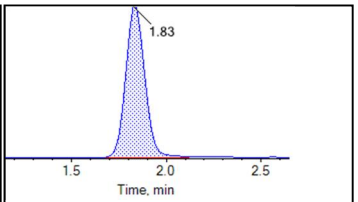


d5-EtFOSAA



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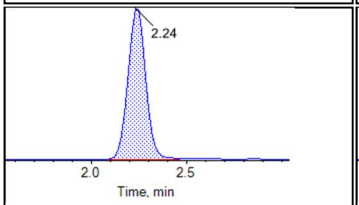

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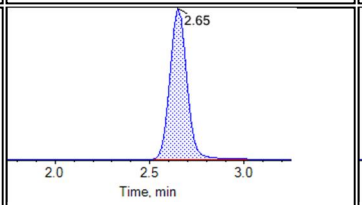

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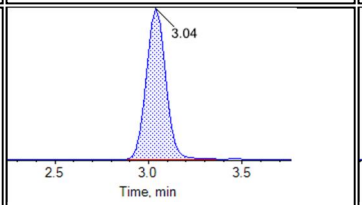

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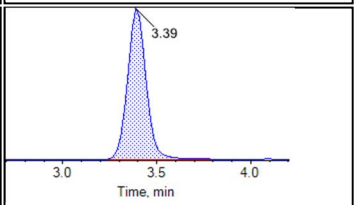

13C6-PFDA

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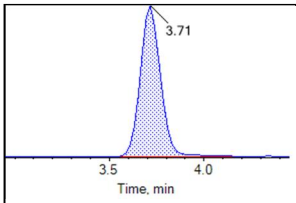
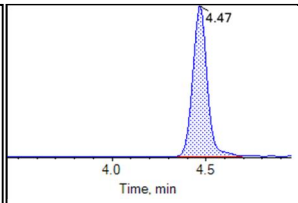



13C7-PFUnA

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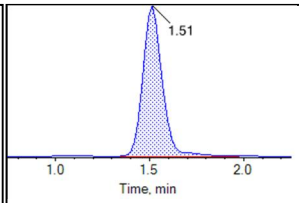


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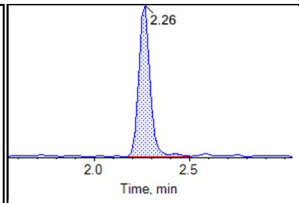


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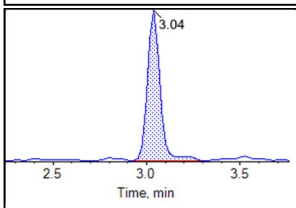


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(9) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:41:02 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

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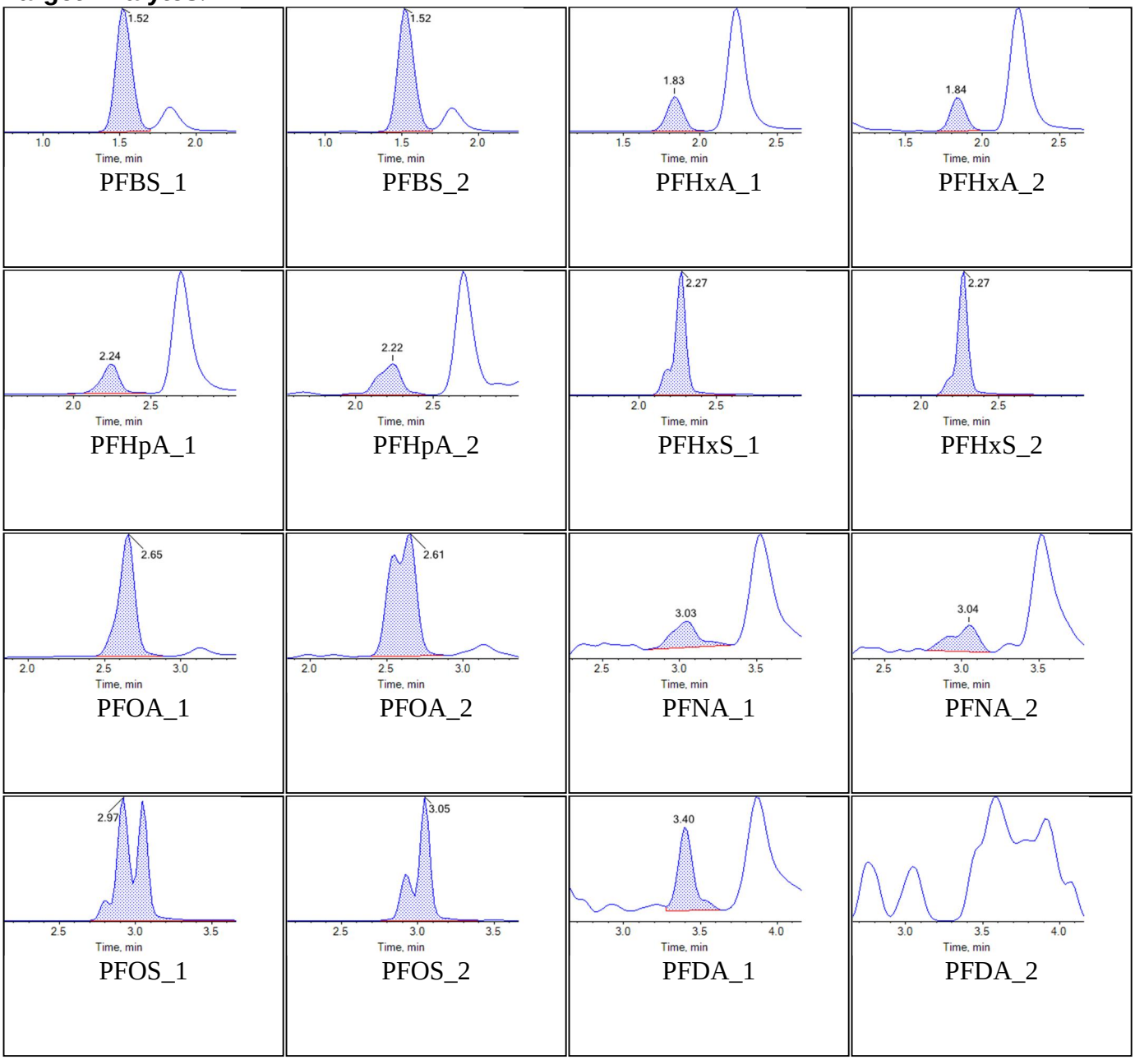

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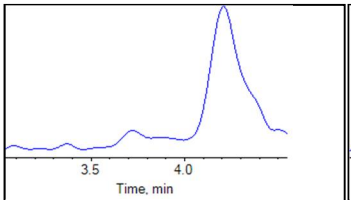

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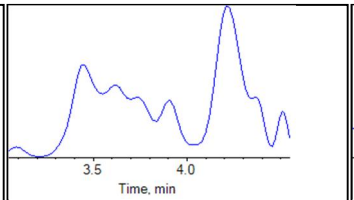

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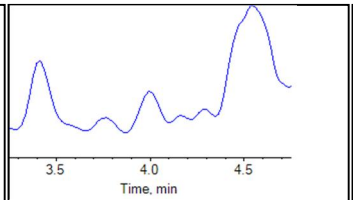

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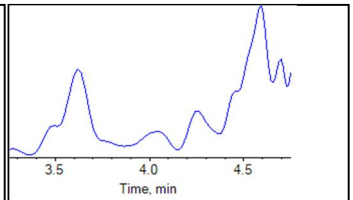
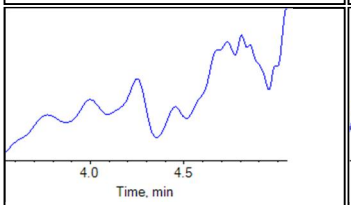


PFDoA_2



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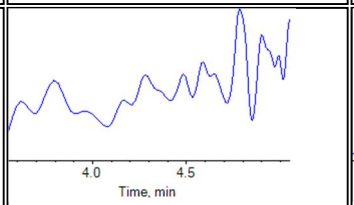

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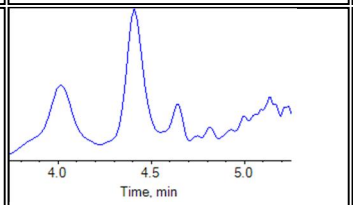

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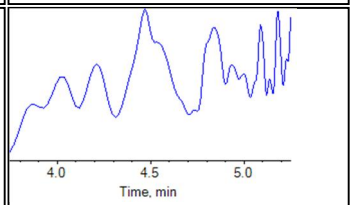

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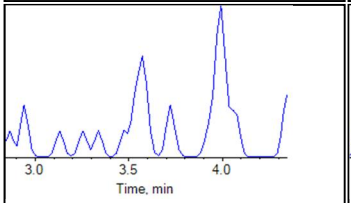

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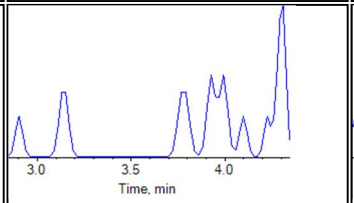

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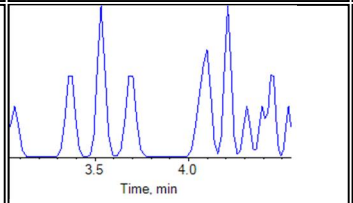

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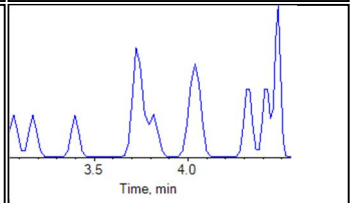

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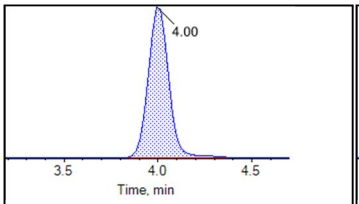

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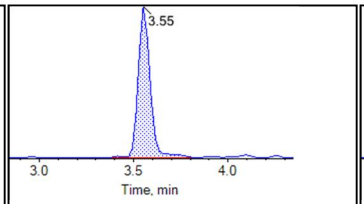
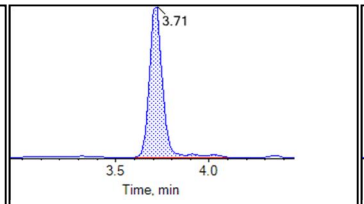


d3-MeFOSAA



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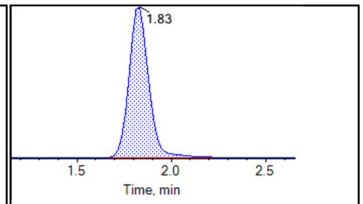

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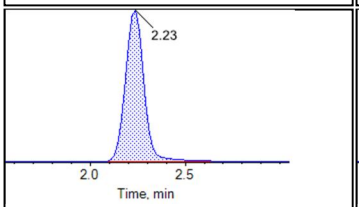
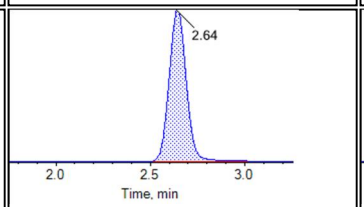


13C4-PFHpA



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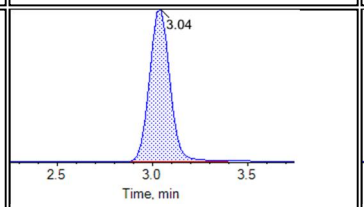
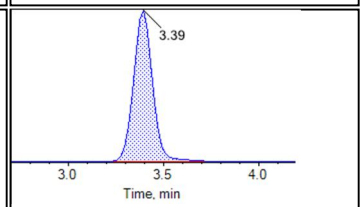


13C9-PFNA



13C6-PFDA

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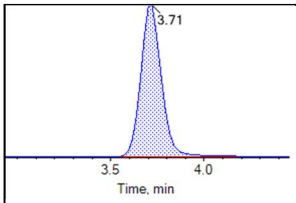


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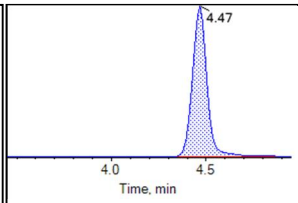


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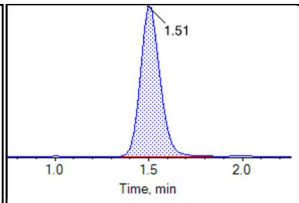


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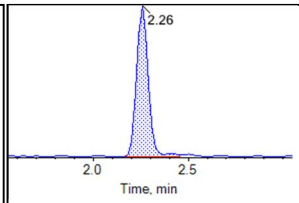


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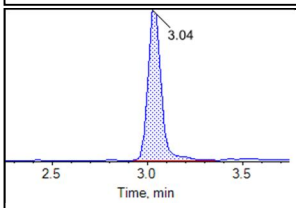


13C8-PFOS

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Chromatogram Report

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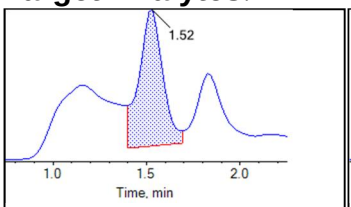
| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:02:44 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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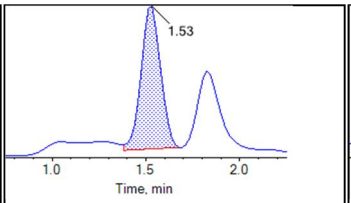

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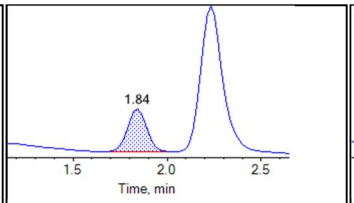

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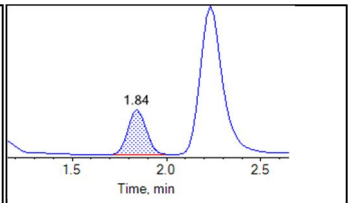

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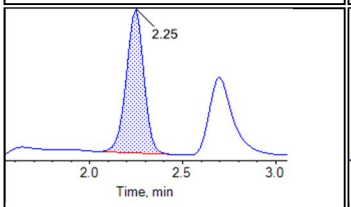

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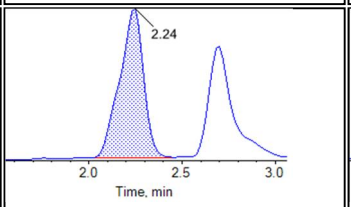

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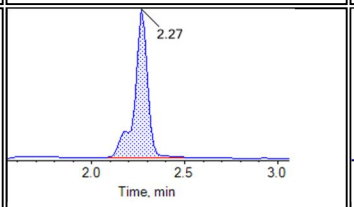

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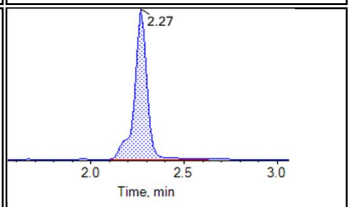

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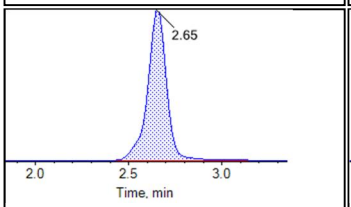

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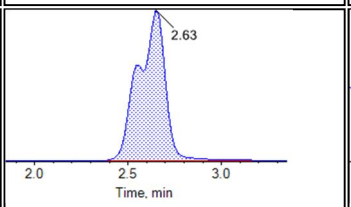

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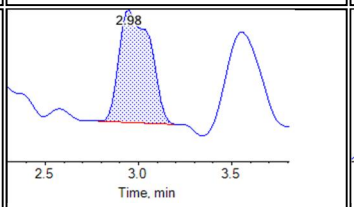

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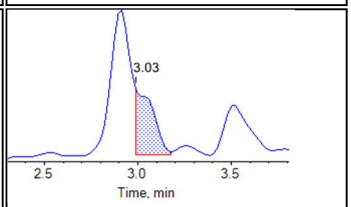

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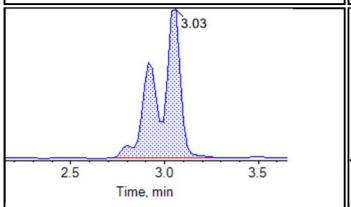

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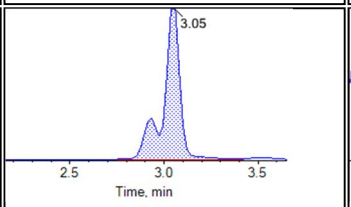

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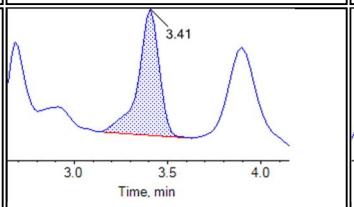

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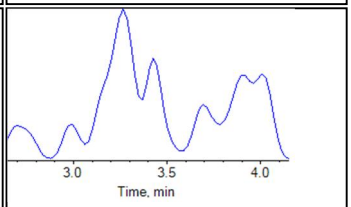

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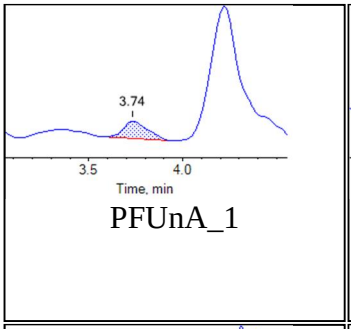

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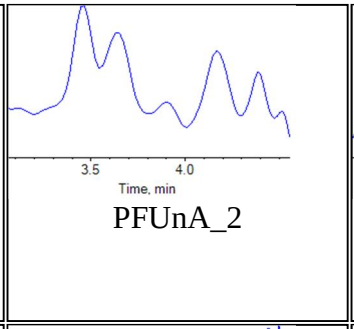

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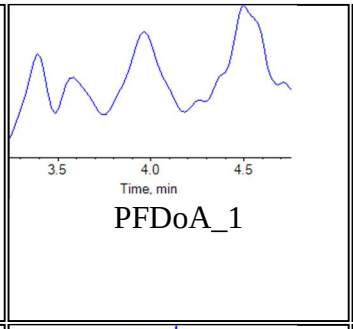

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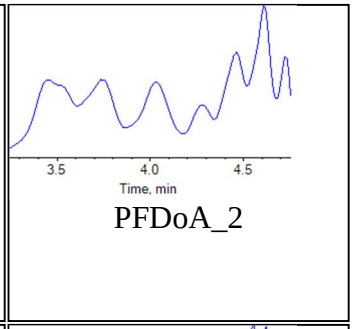

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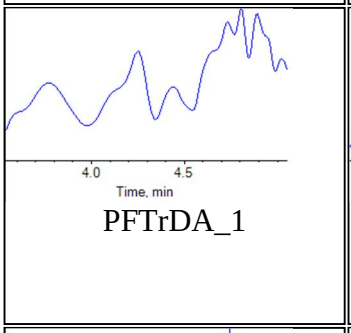

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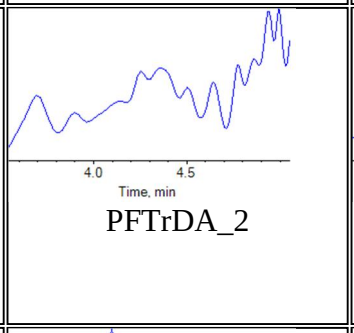

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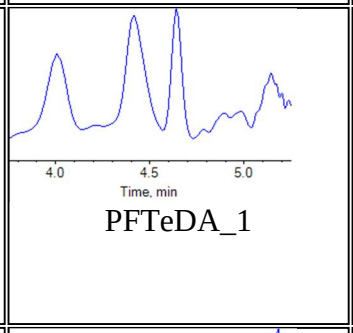

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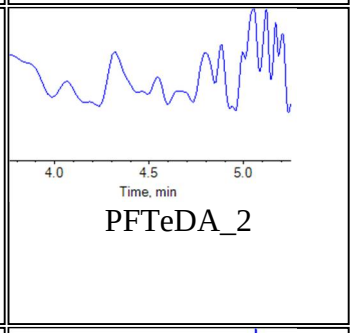

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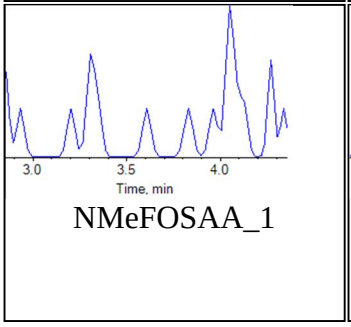

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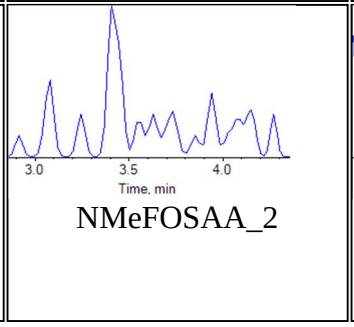

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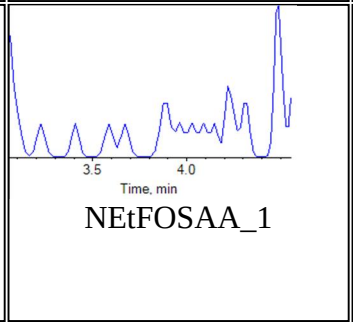

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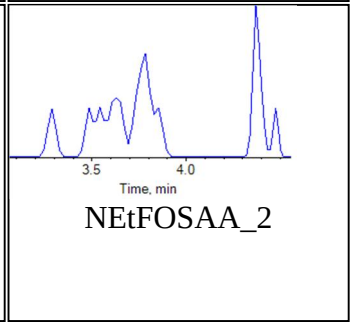

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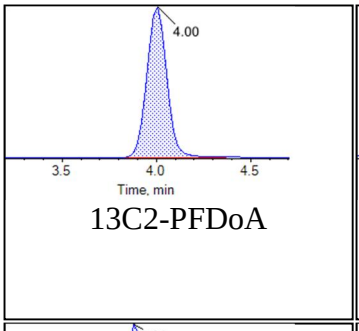

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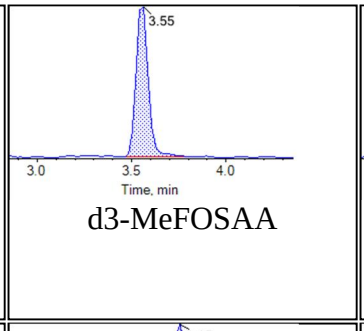

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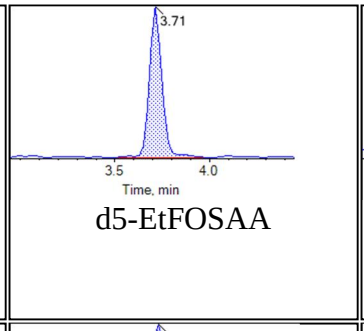

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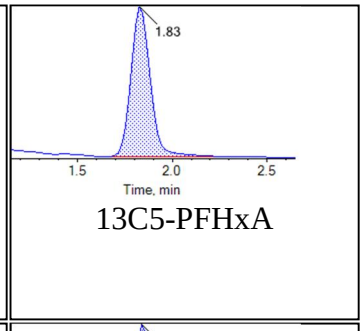

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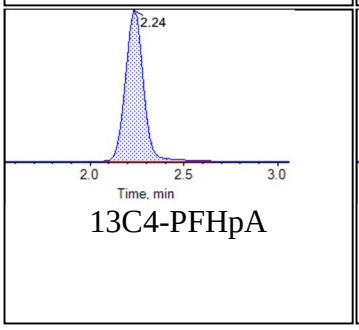

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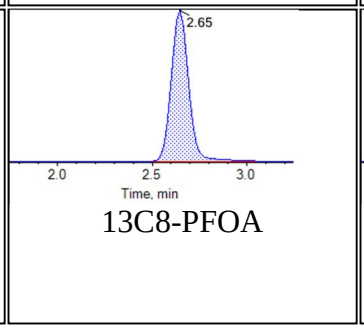

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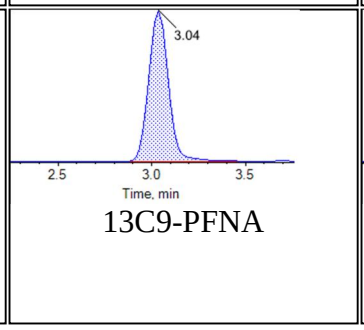

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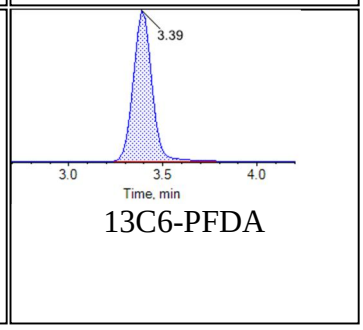

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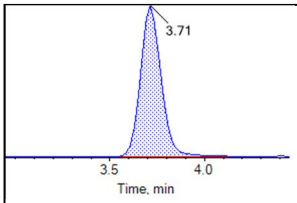


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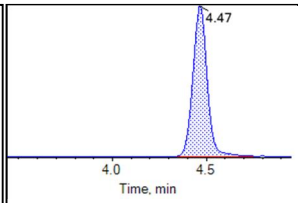


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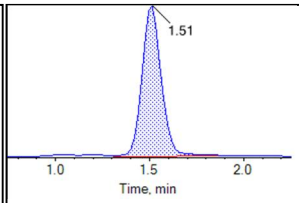


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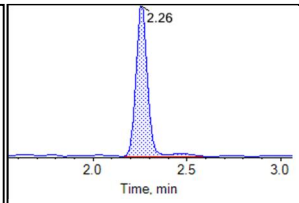


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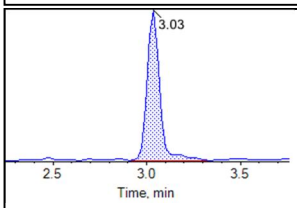


13C8-PFOS

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Chromatogram Report

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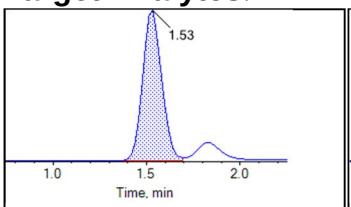
| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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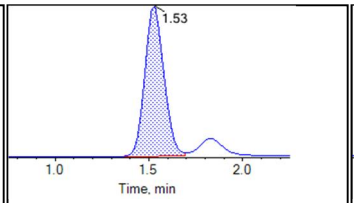

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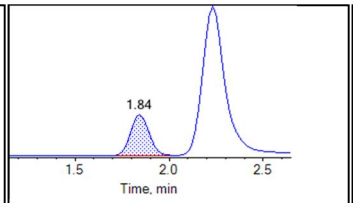

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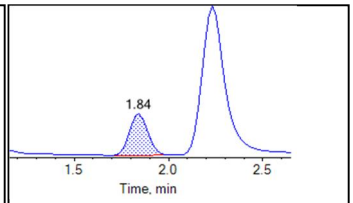

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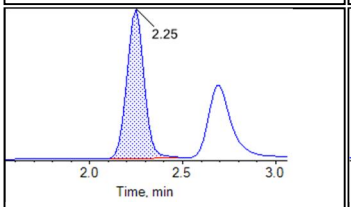

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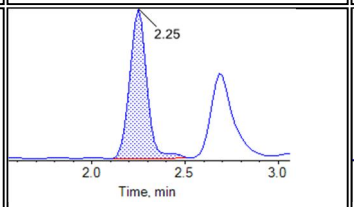

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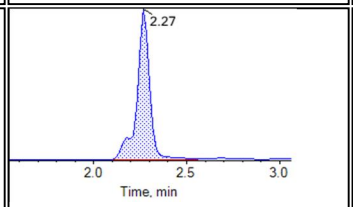

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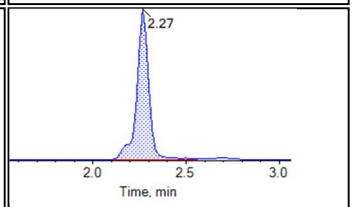

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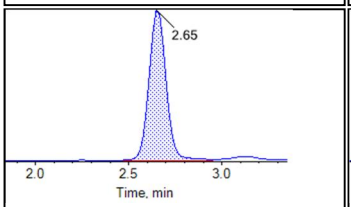

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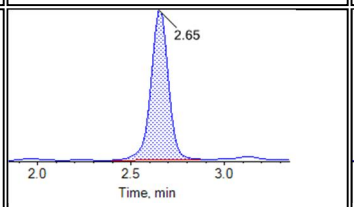

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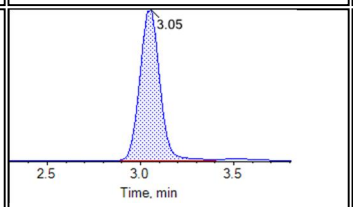

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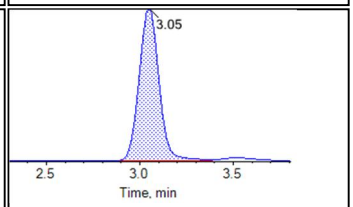

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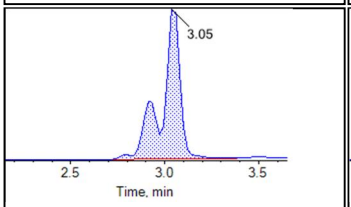
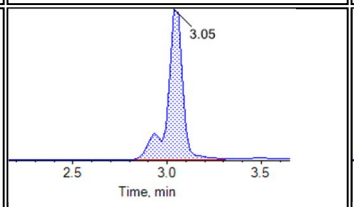


PFOS_1



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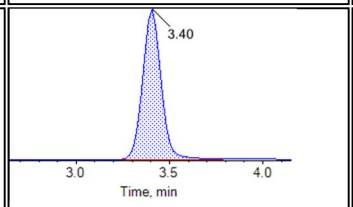

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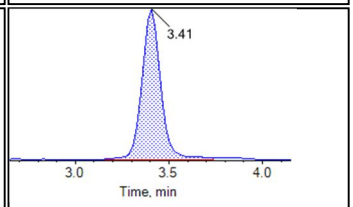

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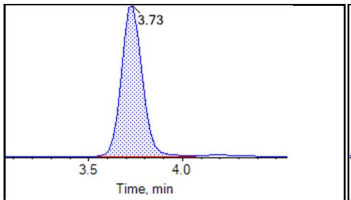

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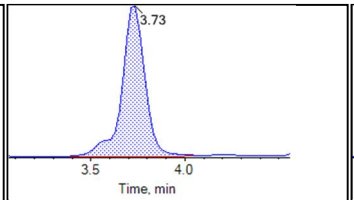

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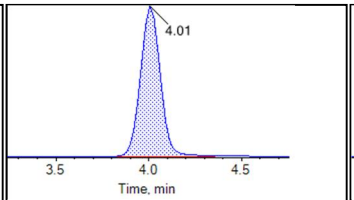

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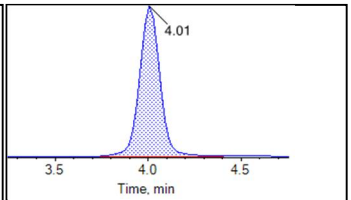

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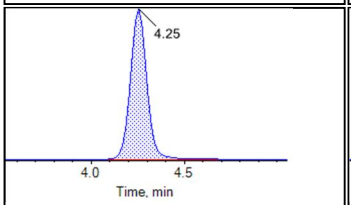

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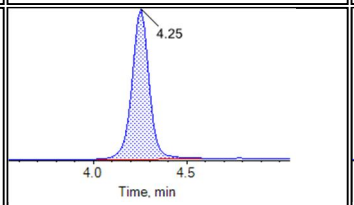

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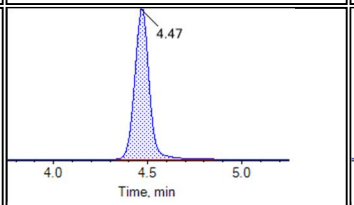

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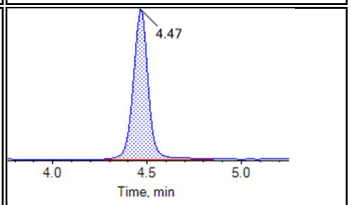

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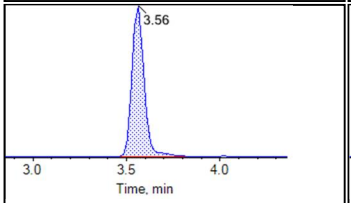

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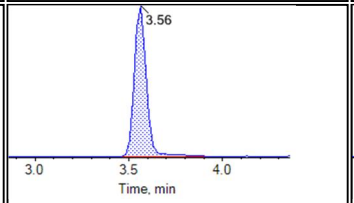

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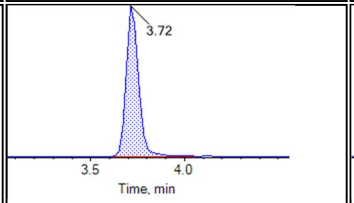

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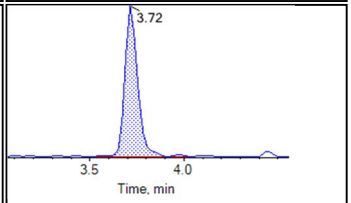

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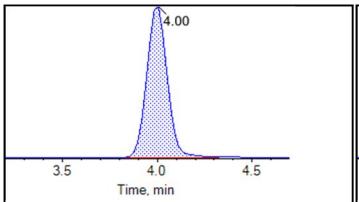

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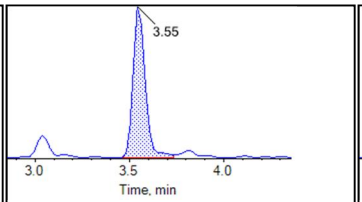

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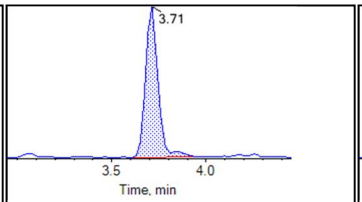

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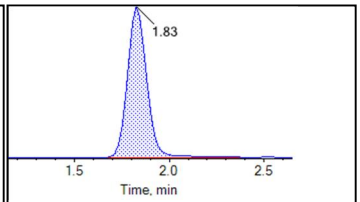

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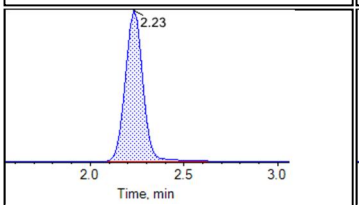

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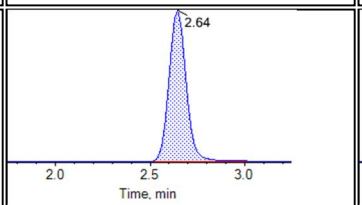

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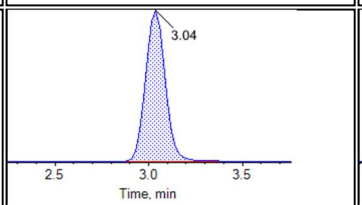

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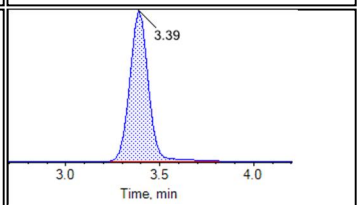

13C6-PFDA

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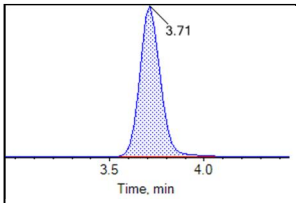
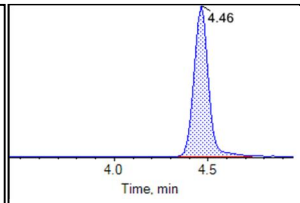
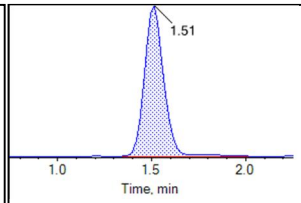



13C7-PFUnA




13C2-PFTeDA

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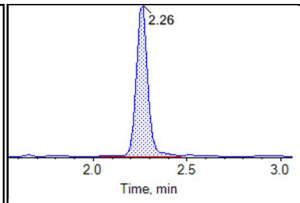


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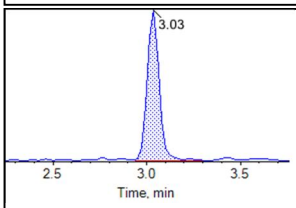


13C8-PFOS

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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:40:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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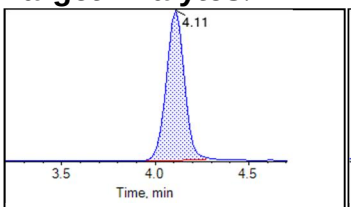

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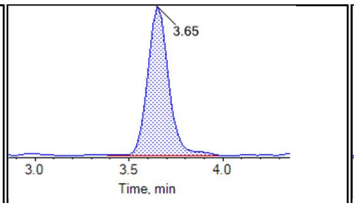

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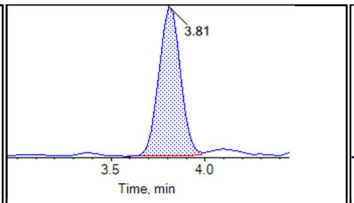

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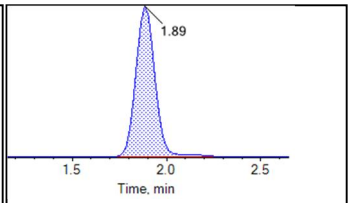

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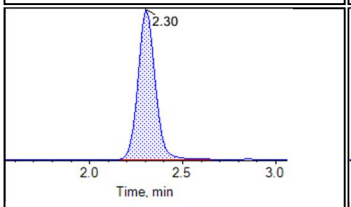

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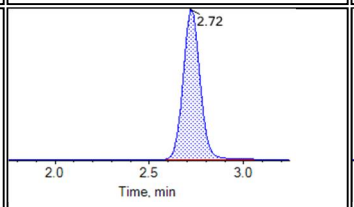

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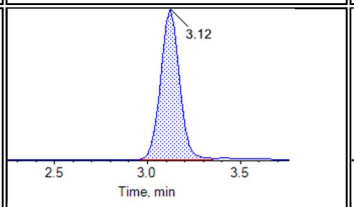
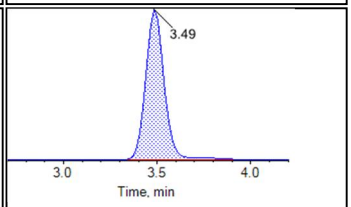
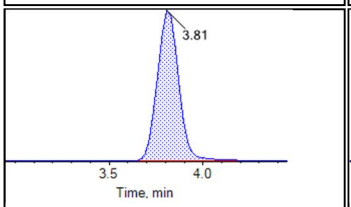


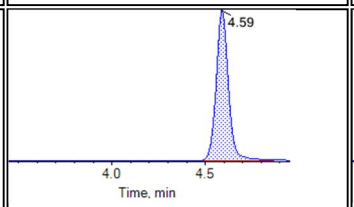
13C9-PFNA



13C6-PFDA



13C7-PFUnA



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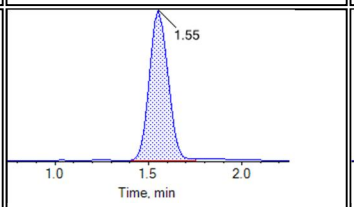
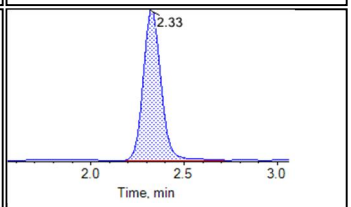


13C3-PFBS



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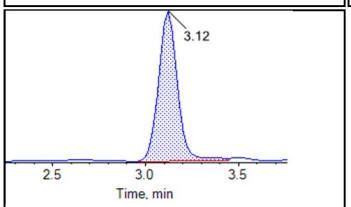

13C8-PFOS

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Chromatogram Report

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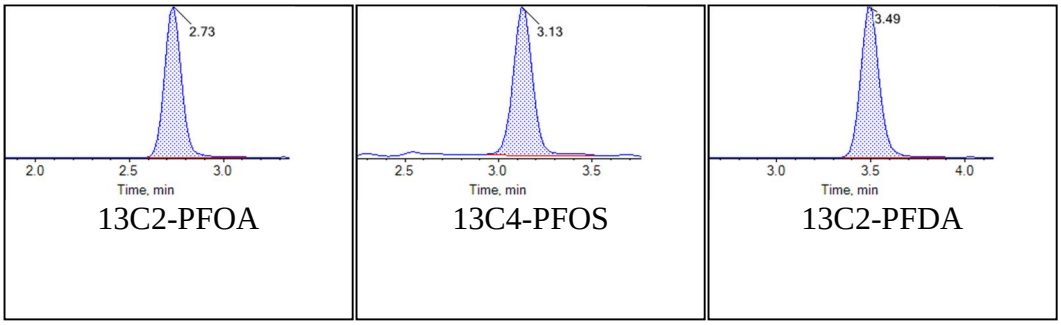
**Internal Standards:**



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Chromatogram Report

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| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T15:51:02 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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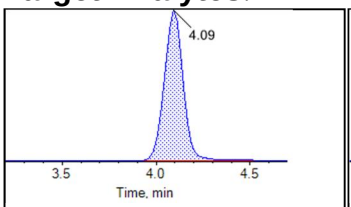

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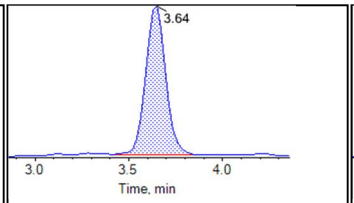
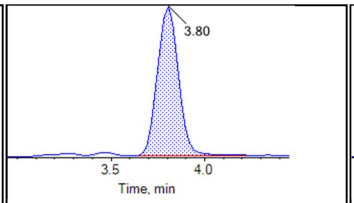
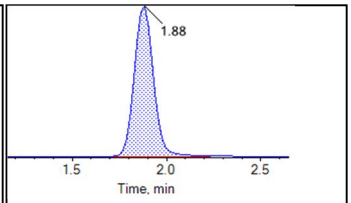


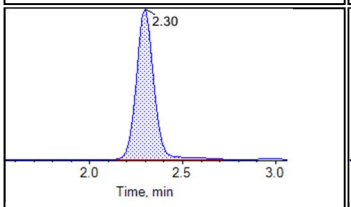
d3-MeFOSAA



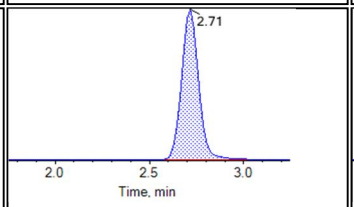
d5-EtFOSAA



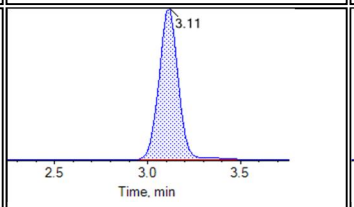
13C5-PFHxA



13C4-PFHpA



13C8-PFOA



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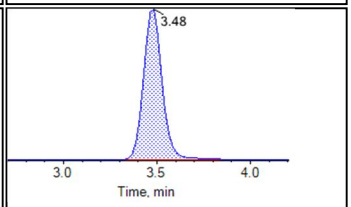
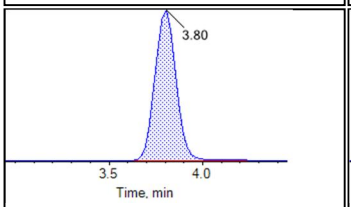
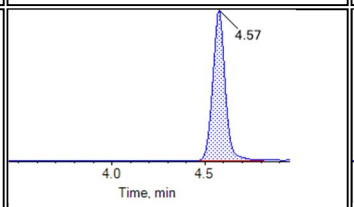


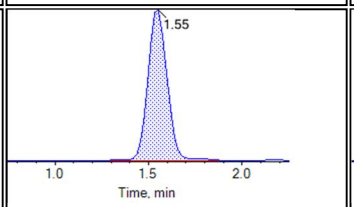
13C6-PFDA



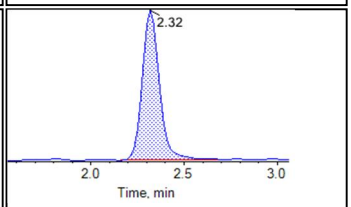
13C7-PFUnA



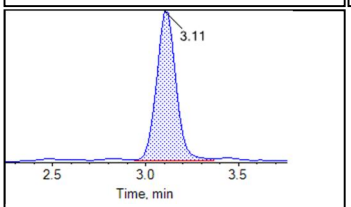
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:51:55 PM

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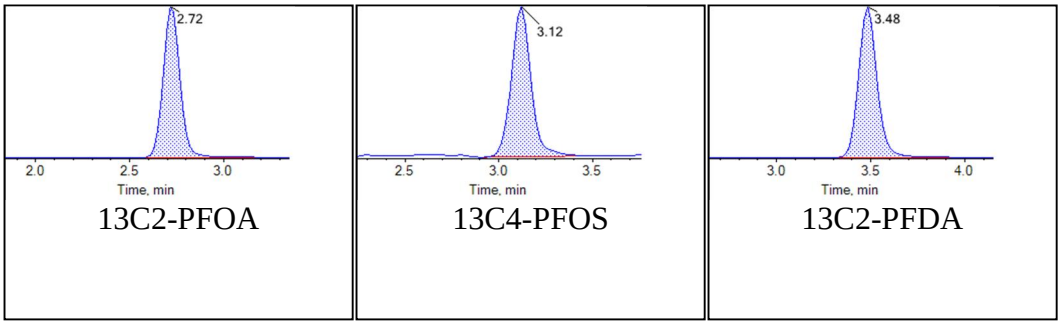

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:00 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:01:53 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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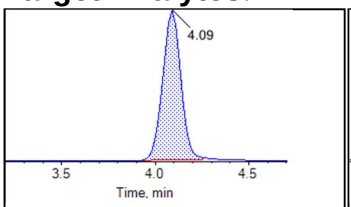

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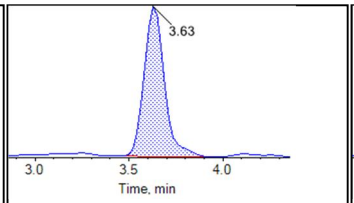
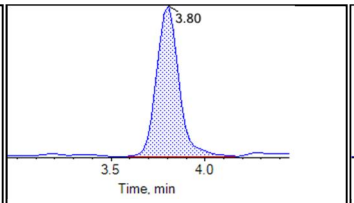


d3-MeFOSAA



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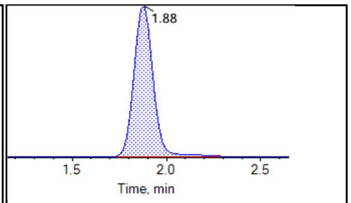

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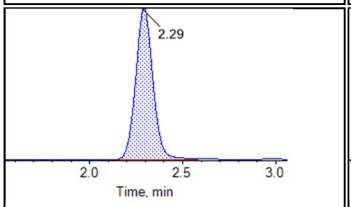

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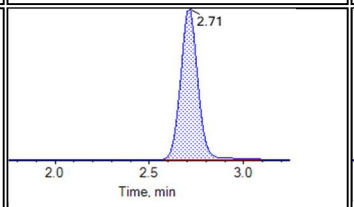
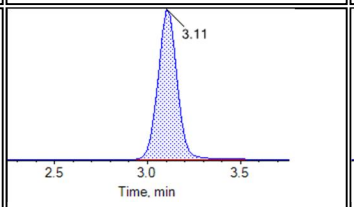
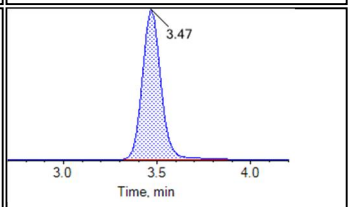


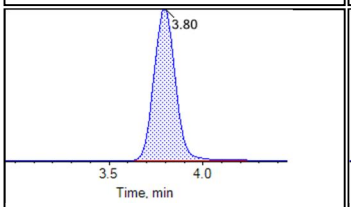
13C8-PFOA



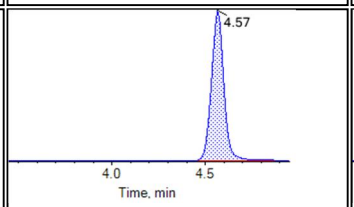
13C9-PFNA



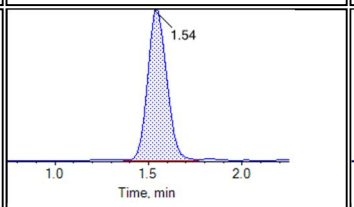
13C6-PFDA



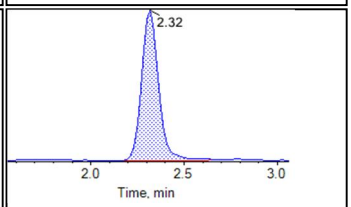
13C7-PFUnA



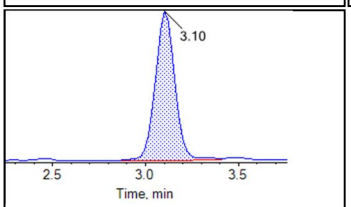
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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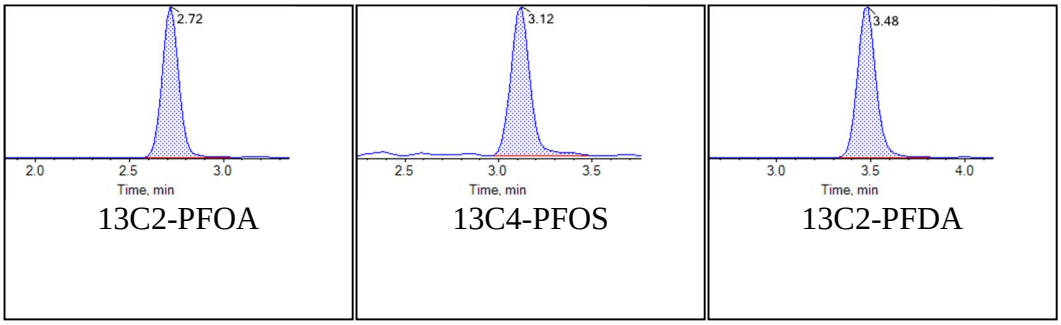
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:05 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:12:44 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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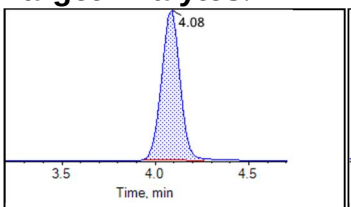

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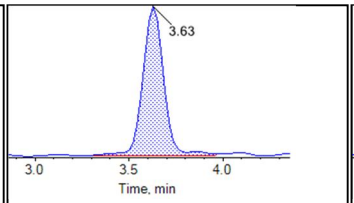
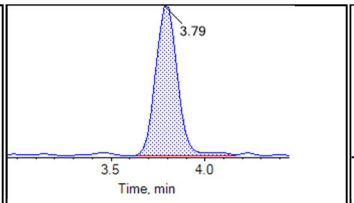


d3-MeFOSAA



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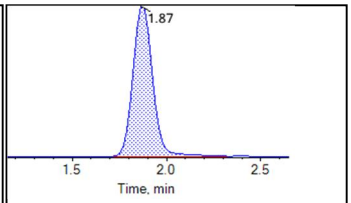

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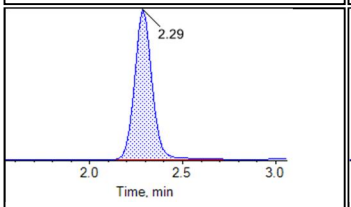
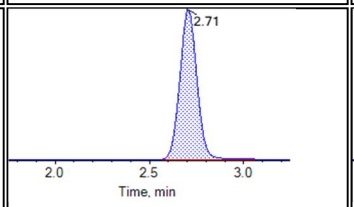
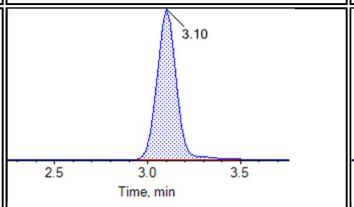


13C4-PFHpA



13C8-PFOA



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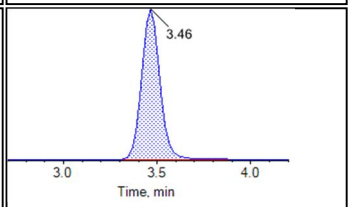
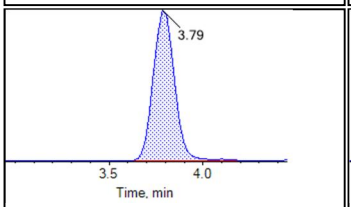
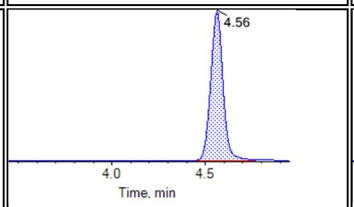


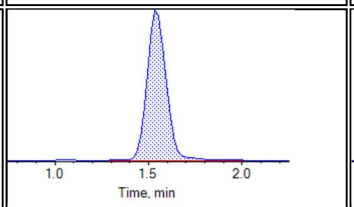
13C6-PFDA



13C7-PFUnA



13C2-PFTeDA



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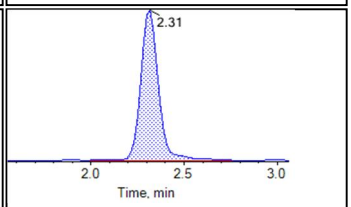
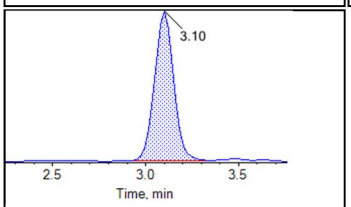


13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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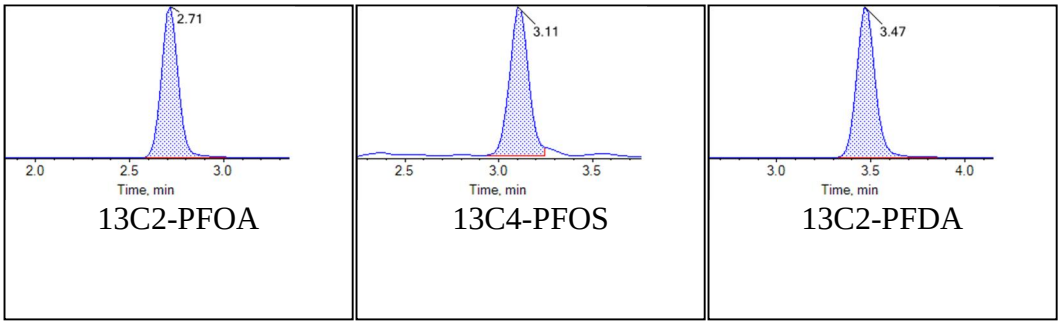
Printed: 22/10/2018 1:52:05 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:10 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:23:36 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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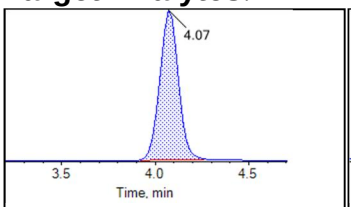
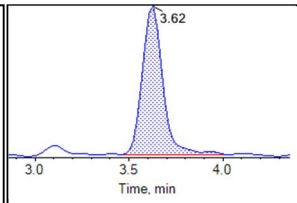
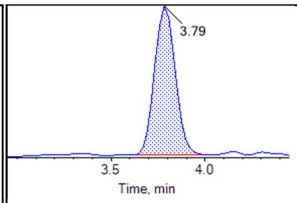


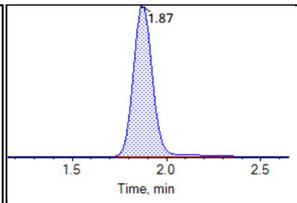
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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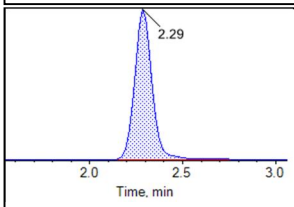

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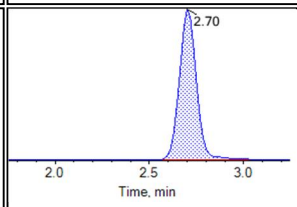

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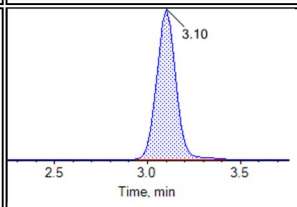

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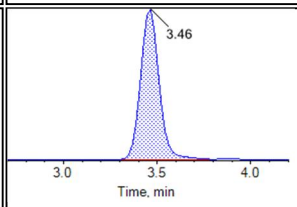

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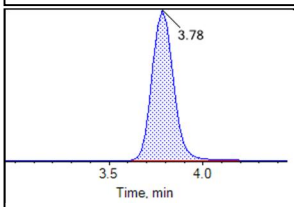
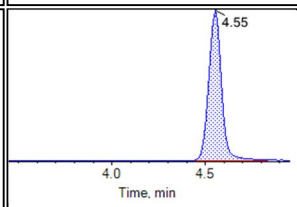
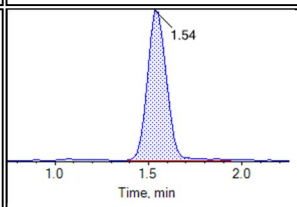


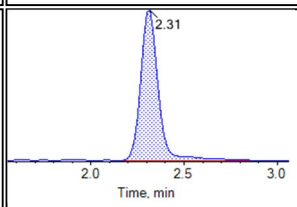
13C7-PFUnA



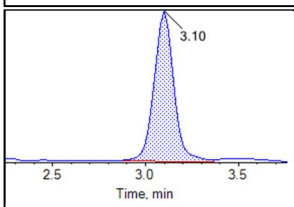
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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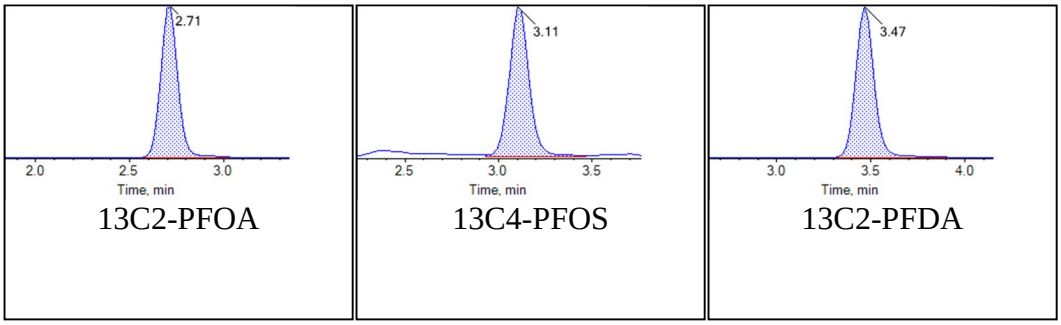
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
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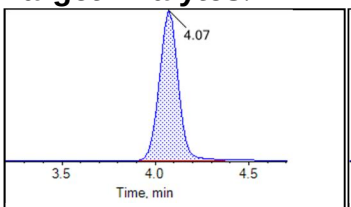
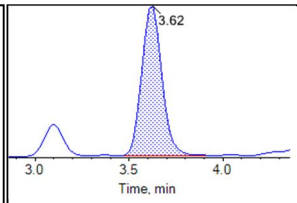
| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:34:28 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

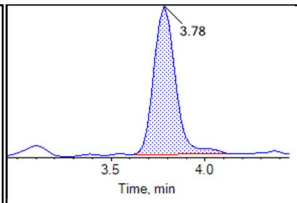
### Target Analytes:



13C2-PFDoA



d3-MeFOSAA



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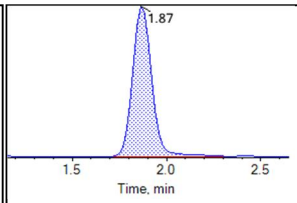
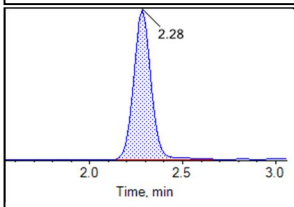
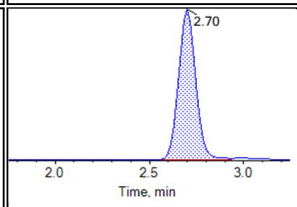


13C5-PFHxA



13C4-PFHpA



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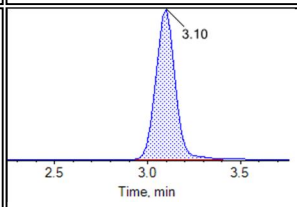
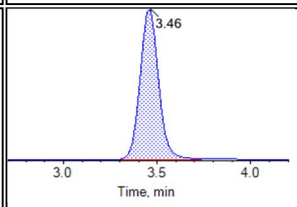
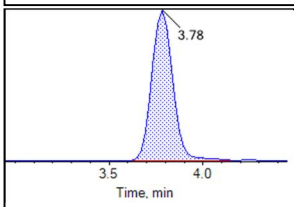


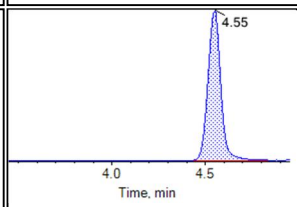
13C9-PFNA



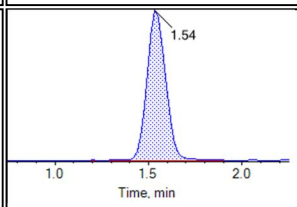
13C6-PFDA



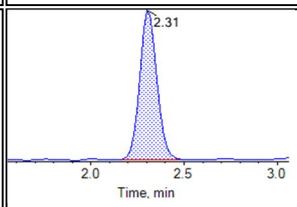
13C7-PFUnA



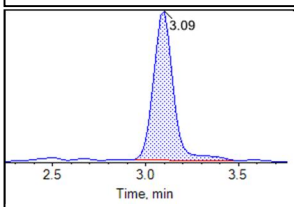
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



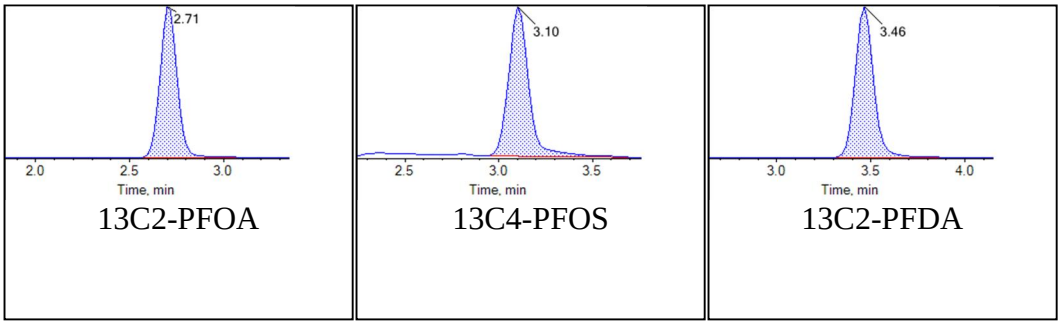
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:14 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:19 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:45:19 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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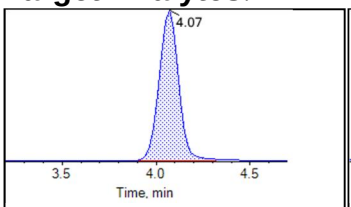

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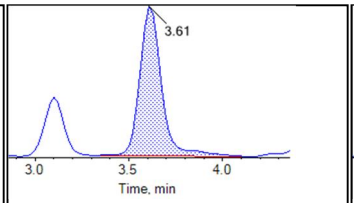
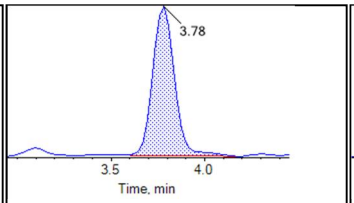
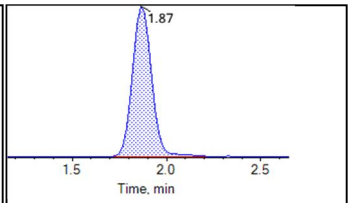


d3-MeFOSAA



d5-EtFOSAA



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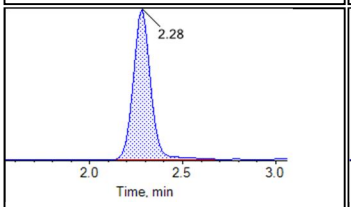

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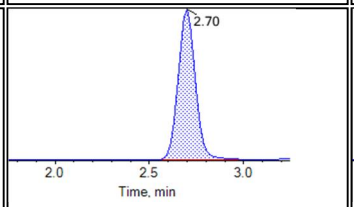

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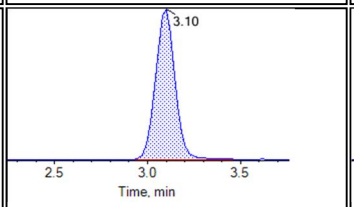
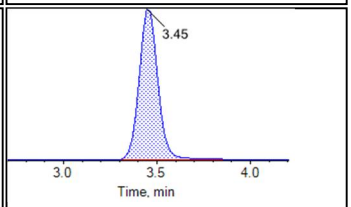
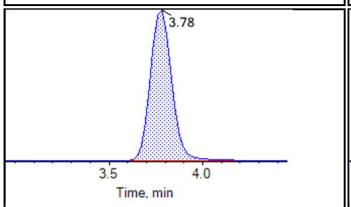


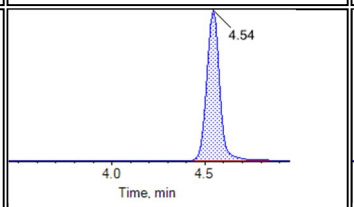
13C9-PFNA



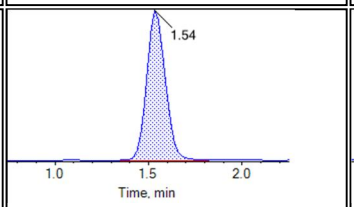
13C6-PFDA



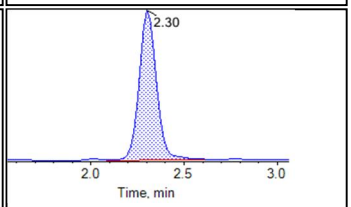
13C7-PFUnA



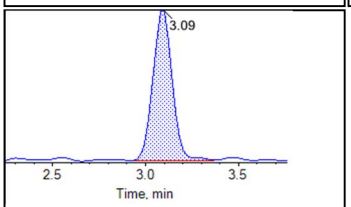
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

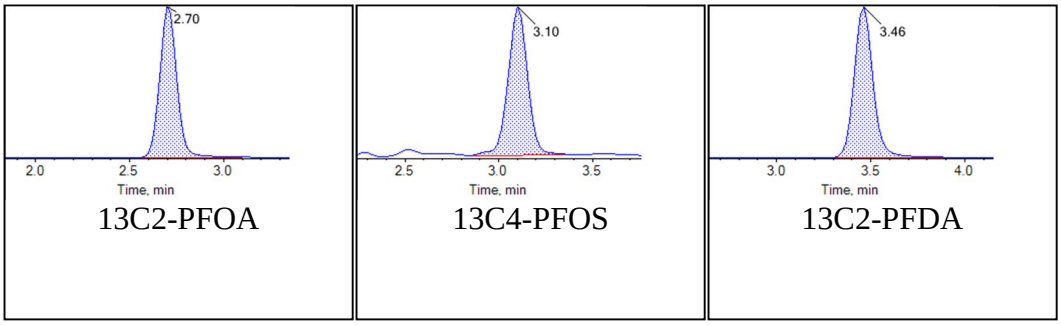


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:19 PM

**Internal Standards:**



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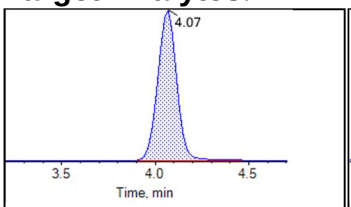
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:24 PM

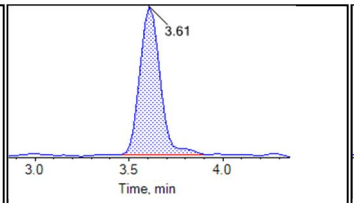
| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T16:56:10 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

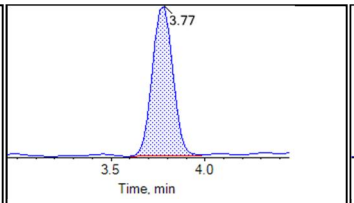
### Target Analytes:



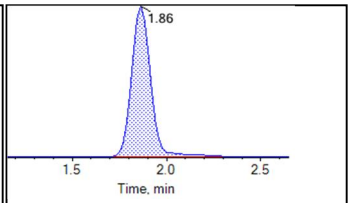
13C2-PFDoA



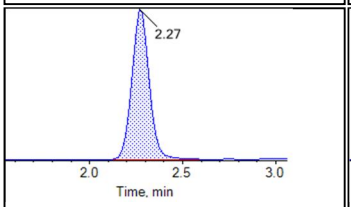
d3-MeFOSAA



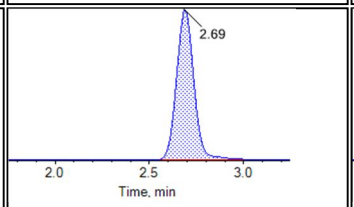
d5-EtFOSAA



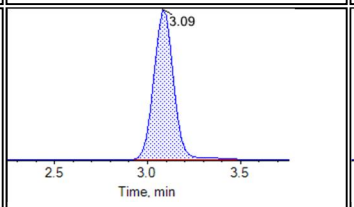
13C5-PFHxA



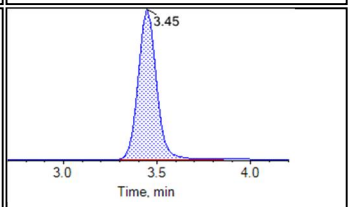
13C4-PFHpA



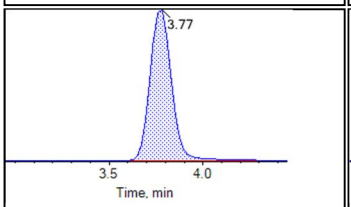
13C8-PFOA



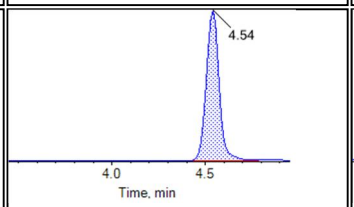
13C9-PFNA



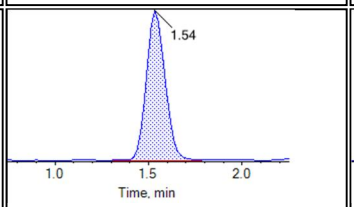
13C6-PFDA



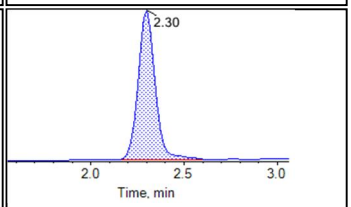
13C7-PFUnA



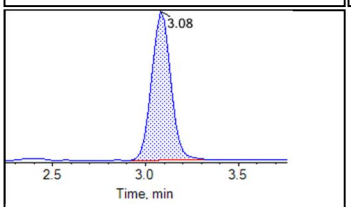
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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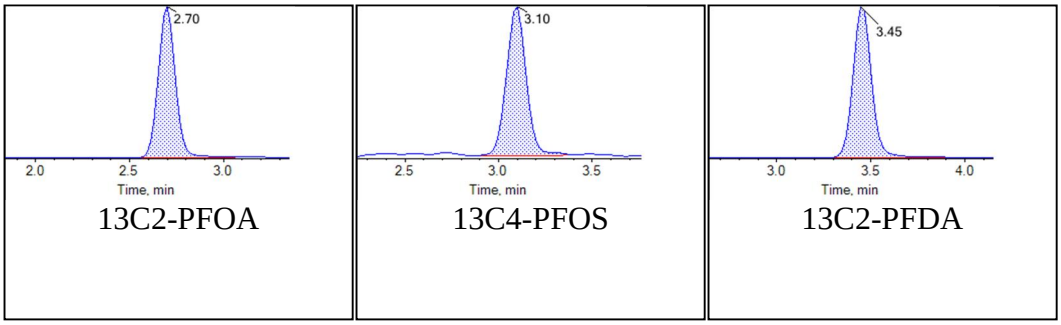
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:24 PM

**Internal Standards:**



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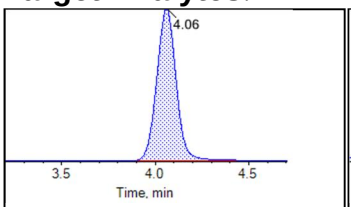
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:28 PM

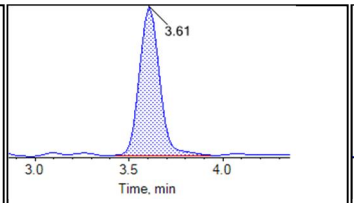
| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-08T17:07:01 | **Data File** | 18-0601.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

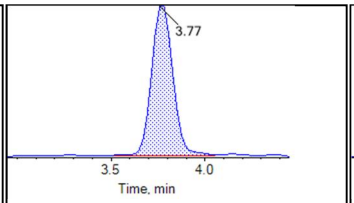
### Target Analytes:



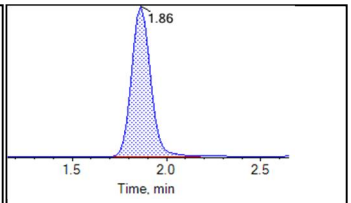
13C2-PFDoA



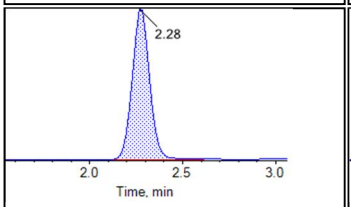
d3-MeFOSAA



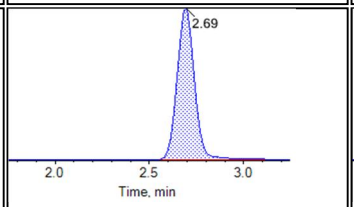
d5-EtFOSAA



13C5-PFHxA



13C4-PFHpA



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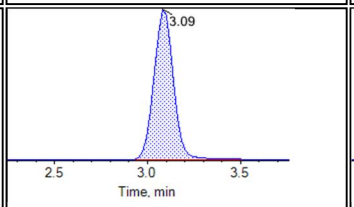
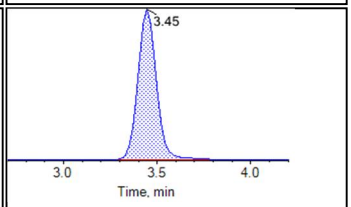
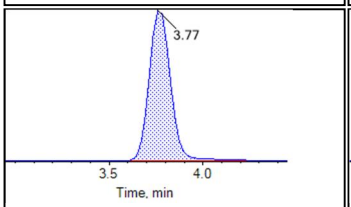


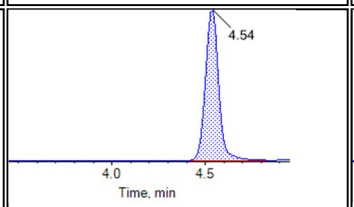
13C9-PFNA



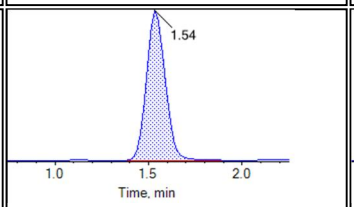
13C6-PFDA



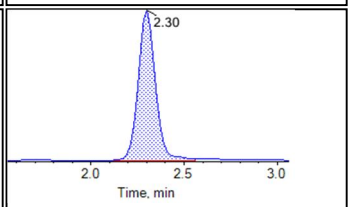
13C7-PFUnA



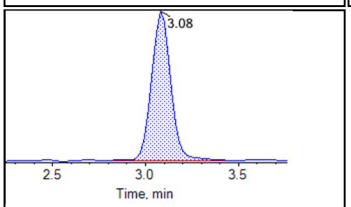
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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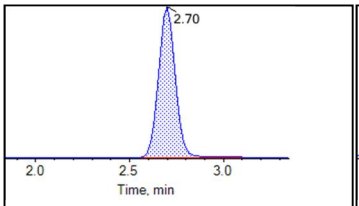
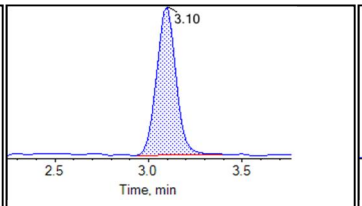
Printed: 22/10/2018 1:52:28 PM

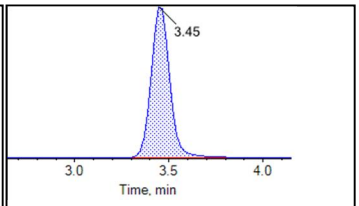
**Internal Standards:**




13C2-PFOA




13C4-PFOS




13C2-PFDA

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:41 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:09:23 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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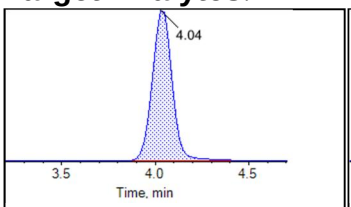
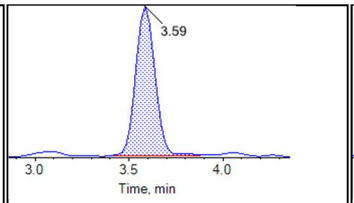
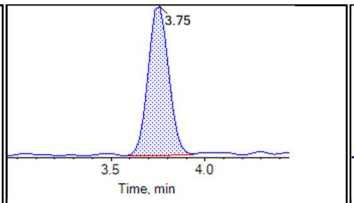


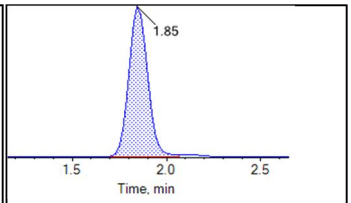
13C2-PFDoA



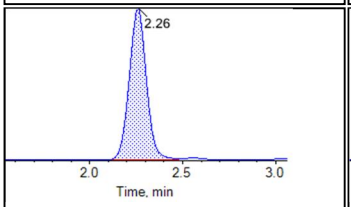
d3-MeFOSAA



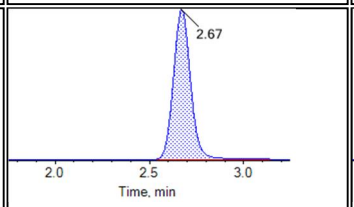
d5-EtFOSAA



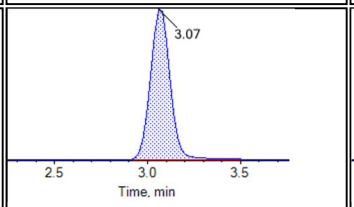
13C5-PFHxA



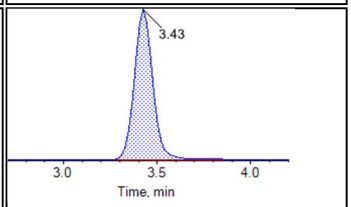
13C4-PFHpA



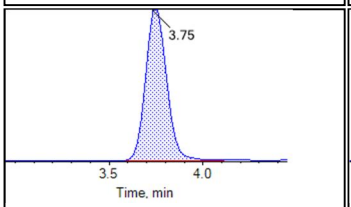
13C8-PFOA



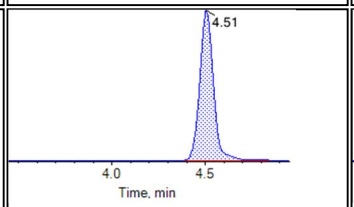
13C9-PFNA



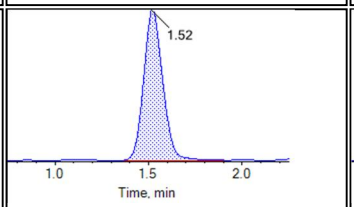
13C6-PFDA



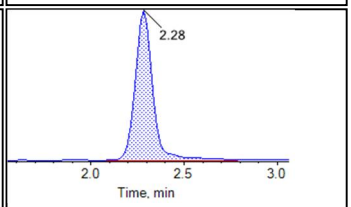
13C7-PFUnA



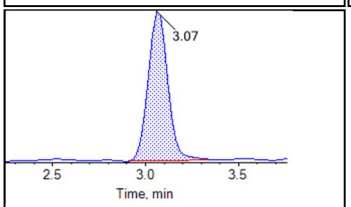
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

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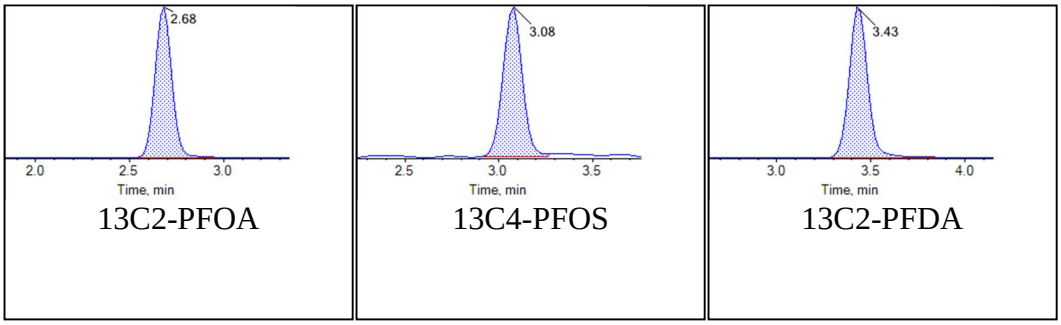
Printed: 22/10/2018 1:52:41 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:46 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | IB | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T18:20:17 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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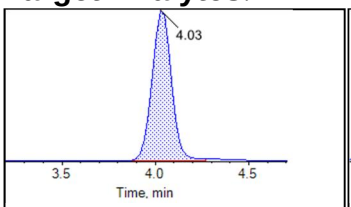
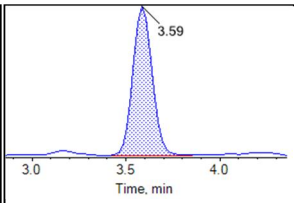
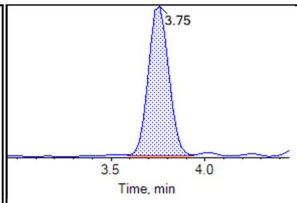


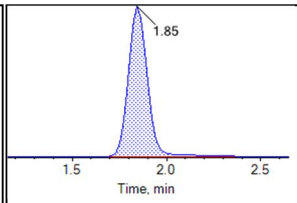
13C2-PFDoA



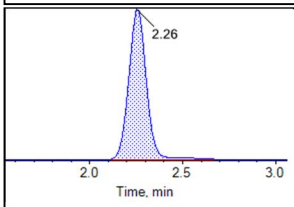
d3-MeFOSAA



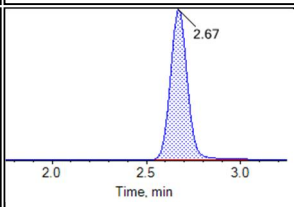
d5-EtFOSAA



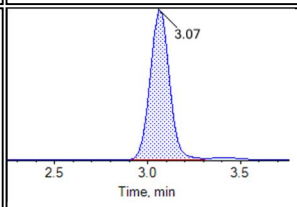
13C5-PFHxA



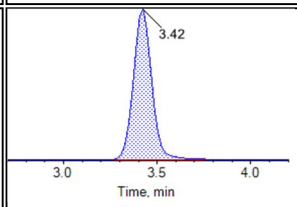
13C4-PFHpA



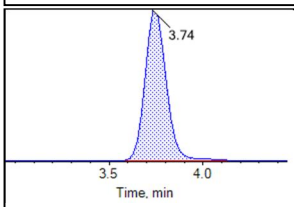
13C8-PFOA



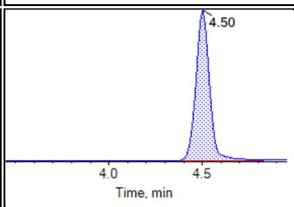
13C9-PFNA



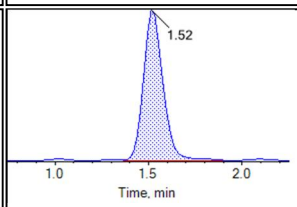
13C6-PFDA



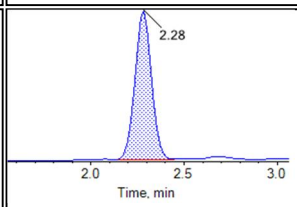
13C7-PFUnA



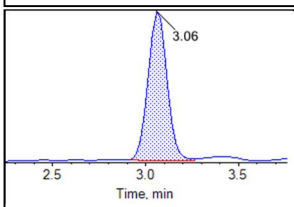
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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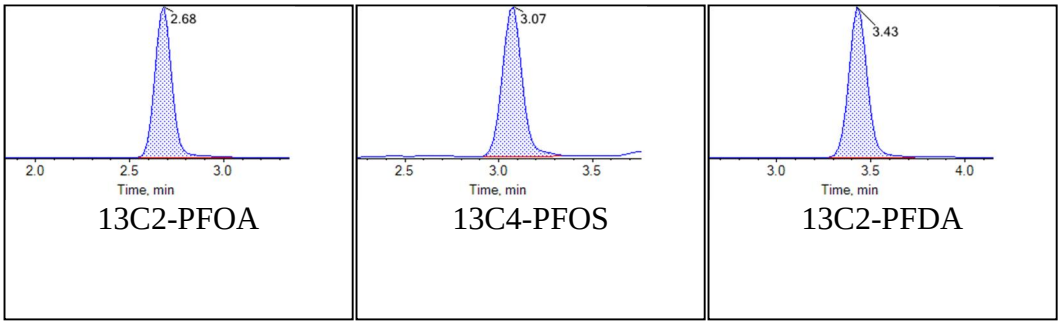
**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:52:55 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 12 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:08:55 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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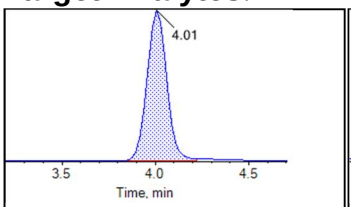
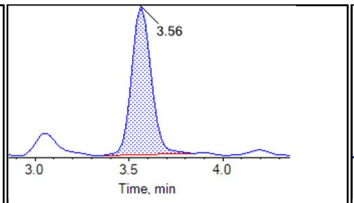
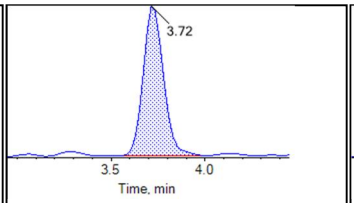


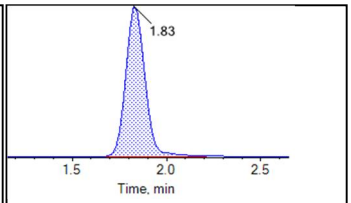
13C2-PFDoA



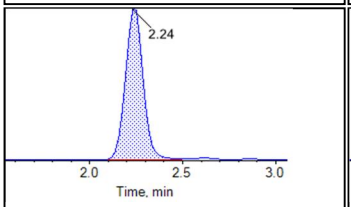
d3-MeFOSAA



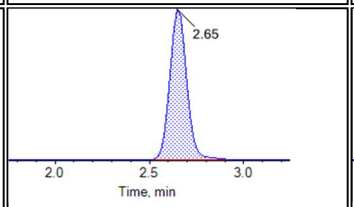
d5-EtFOSAA



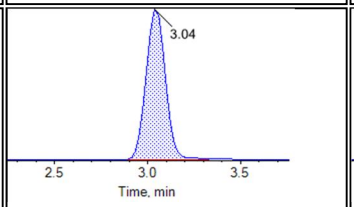
13C5-PFHxA



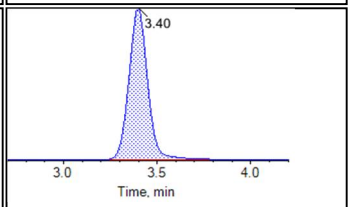
13C4-PFHpA



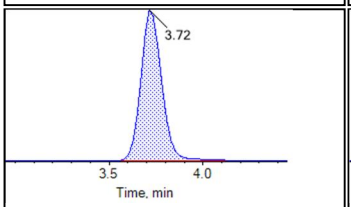
13C8-PFOA



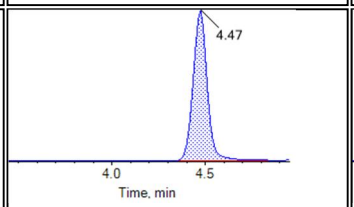
13C9-PFNA



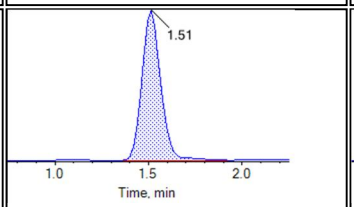
13C6-PFDA



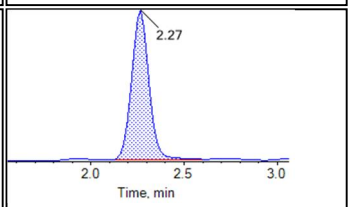
13C7-PFUnA



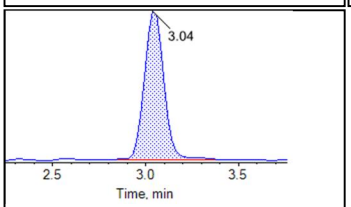
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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Chromatogram Report

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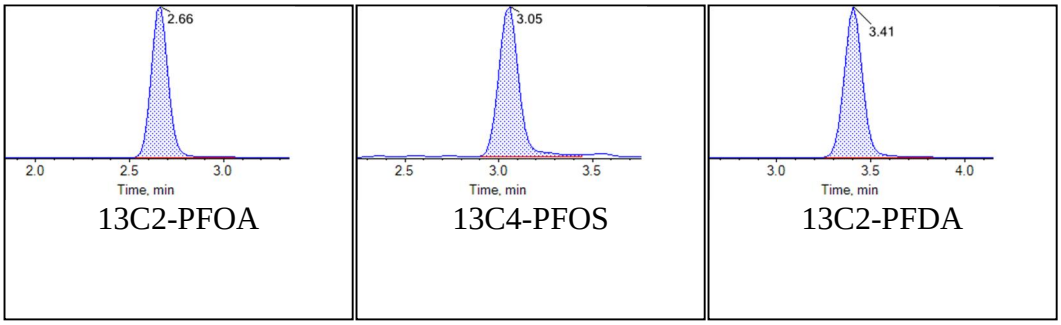
Printed: 22/10/2018 1:52:55 PM

## Internal Standards:



BATTELLE

Chromatogram Report

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Printed: 22/10/2018 1:53:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8286-FS-D(11) | **Injection Vial** | 14 |
| **Sample ID** | VC-CS94-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:30:40 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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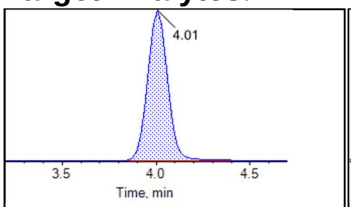
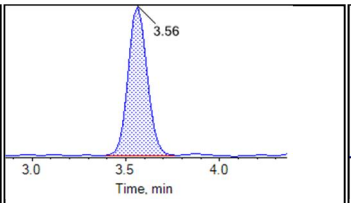
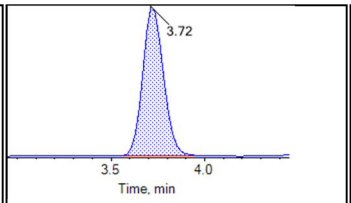


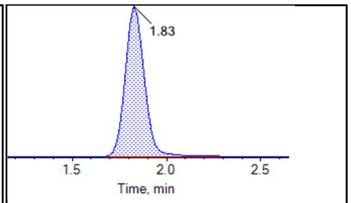
13C2-PFDoA



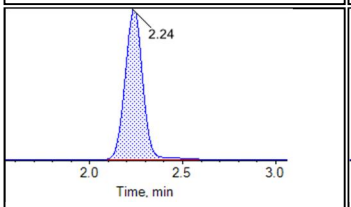
d3-MeFOSAA



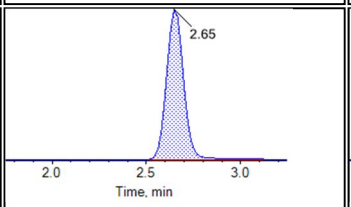
d5-EtFOSAA



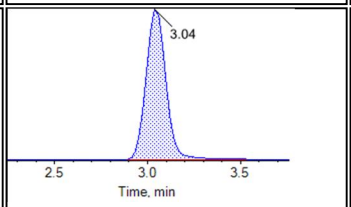
13C5-PFHxA



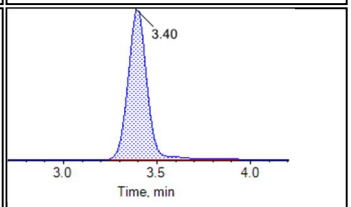
13C4-PFHpA



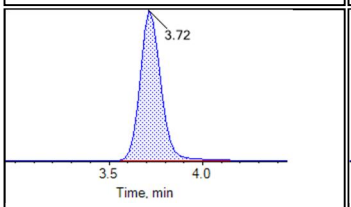
13C8-PFOA



13C9-PFNA



13C6-PFDA



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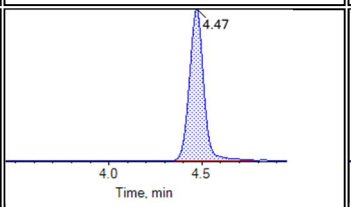
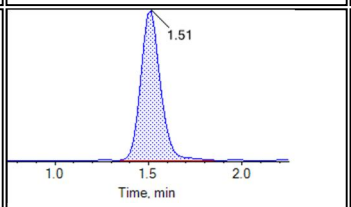
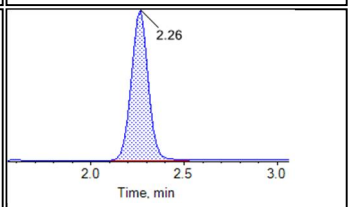


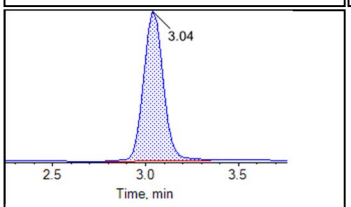
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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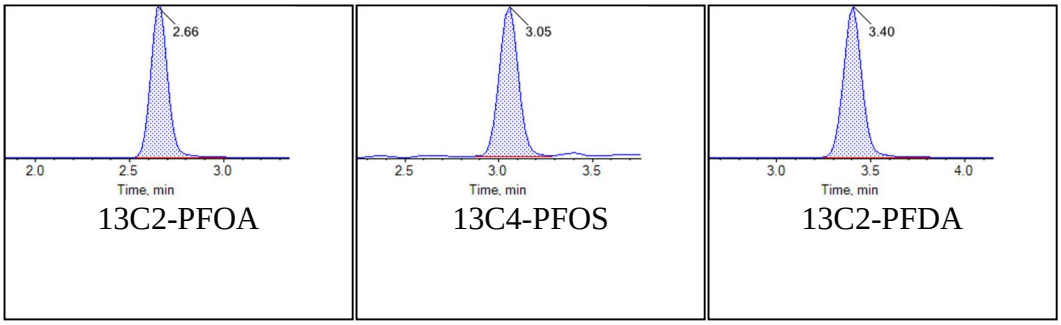
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:03 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8287-FS-D(9) | **Injection Vial** | 15 |
| **Sample ID** | VC-CS94-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:41:32 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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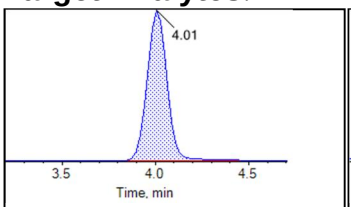
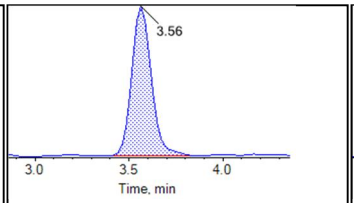


13C2-PFDoA



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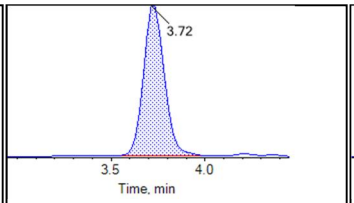

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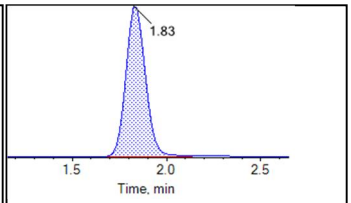
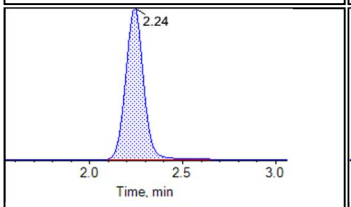
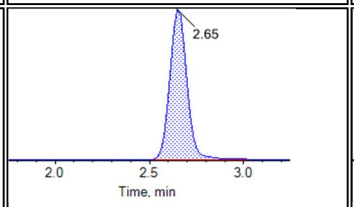


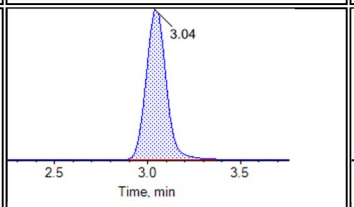
13C5-PFHxA



13C4-PFHpA



13C8-PFOA



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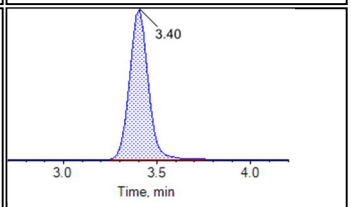
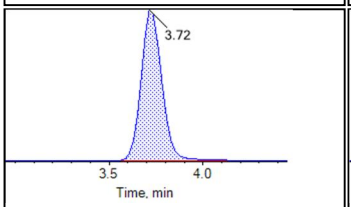
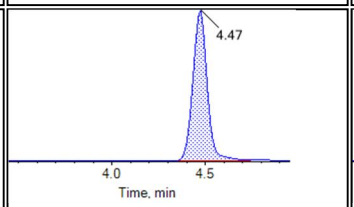


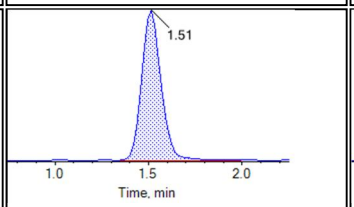
13C6-PFDA



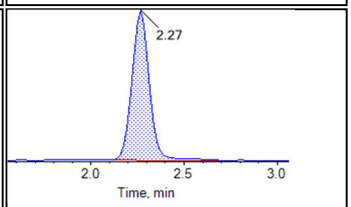
13C7-PFUnA



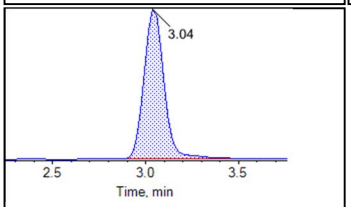
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
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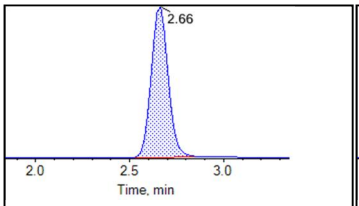
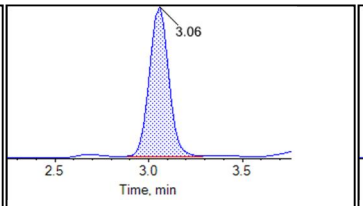
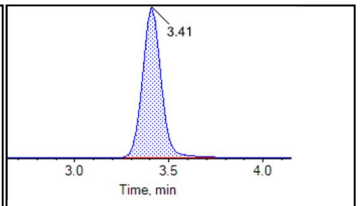
**Internal Standards:**




13C2-PFOA




13C4-PFOS




13C2-PFDA

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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:13 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8319-FS-D(11) | **Injection Vial** | 16 |
| **Sample ID** | VC-PM323-324-DW01-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T20:52:24 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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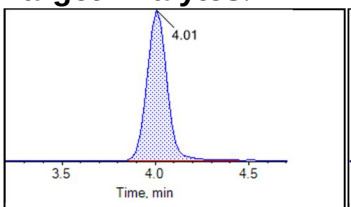
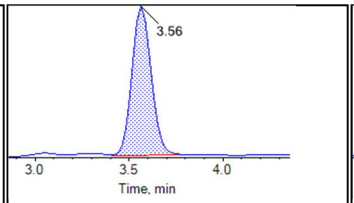
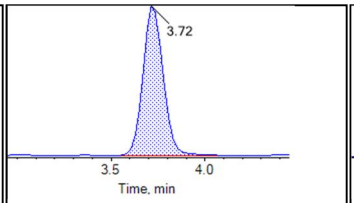


13C2-PFDoA



d3-MeFOSAA



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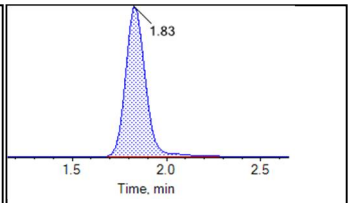

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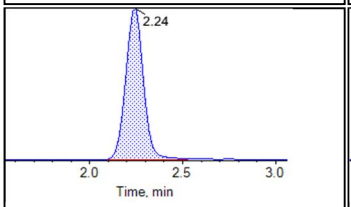

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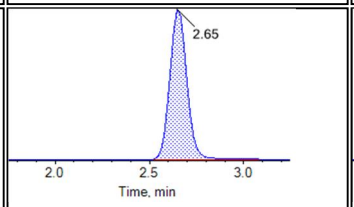

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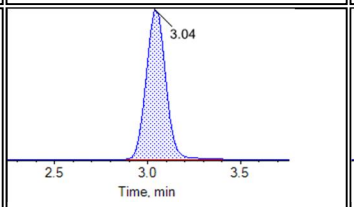
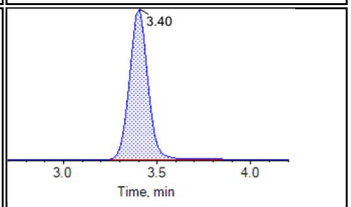
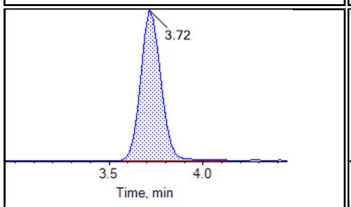


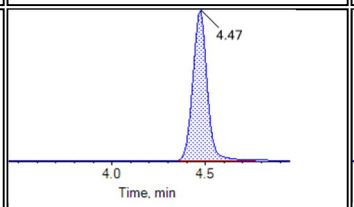
13C9-PFNA



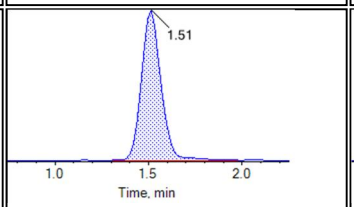
13C6-PFDA



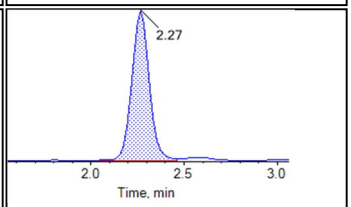
13C7-PFUnA



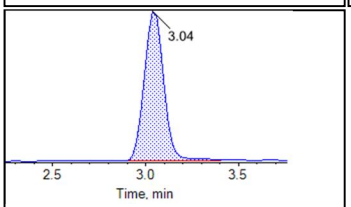
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

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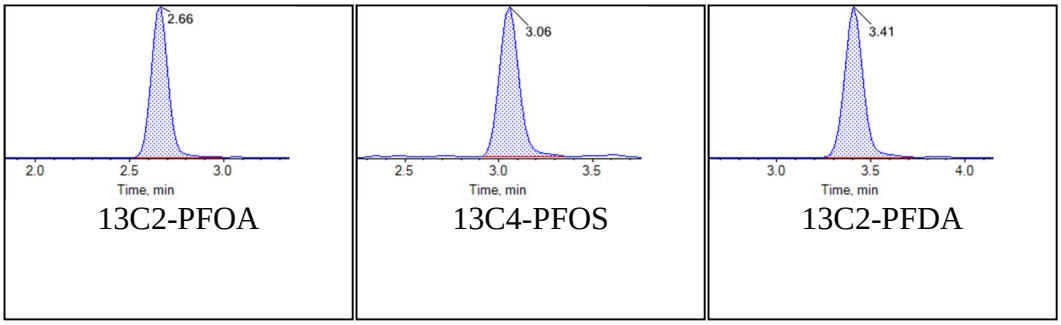
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:13 PM

**Internal Standards:**



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Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:17 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8320-FS-D(11) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW01P-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:03:15 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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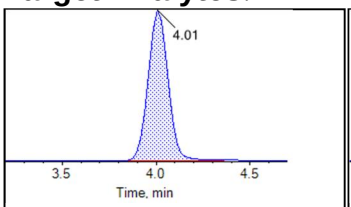
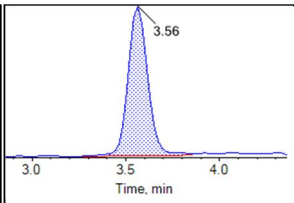
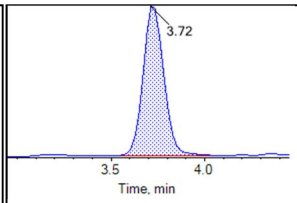


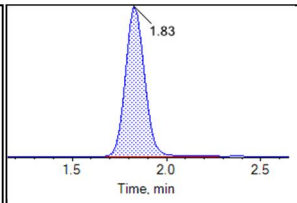
13C2-PFDoA



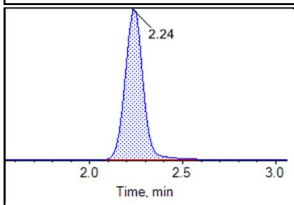
d3-MeFOSAA



d5-EtFOSAA



13C5-PFHxA



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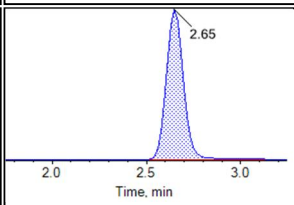
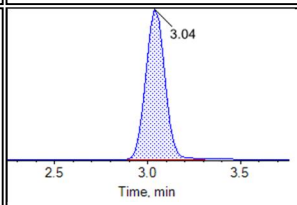
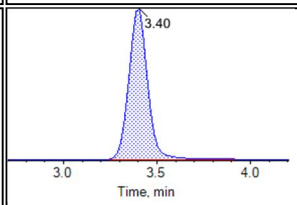


13C8-PFOA



13C9-PFNA



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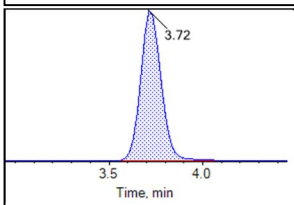
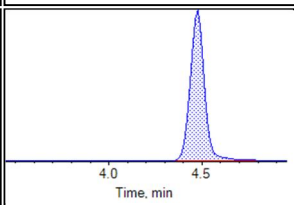
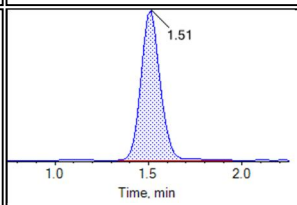


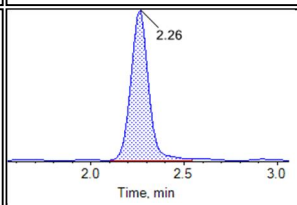
13C7-PFUnA



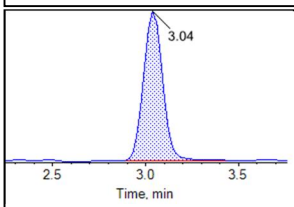
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

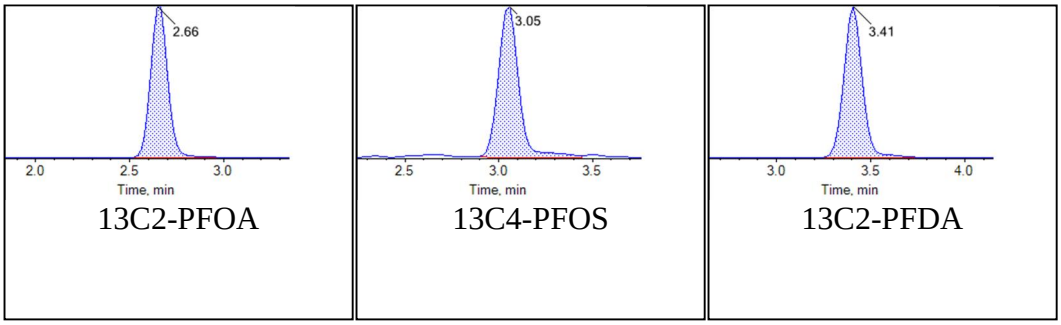


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:17 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8321-FS-D(11) | **Injection Vial** | 18 |
| **Sample ID** | VC-PM323-324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:14:07 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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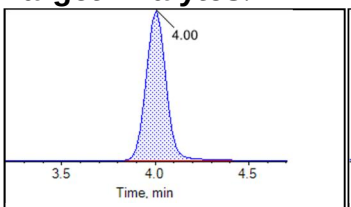
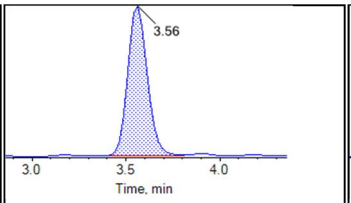


13C2-PFDoA



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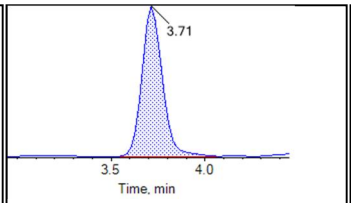

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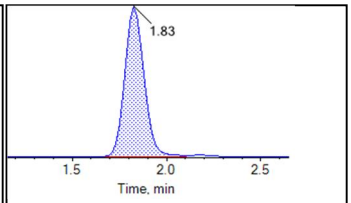

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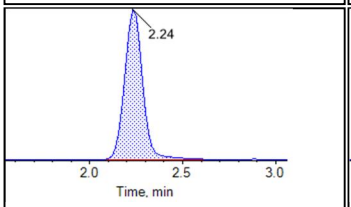
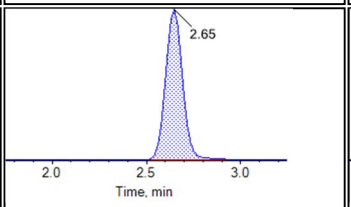


13C4-PFHpA



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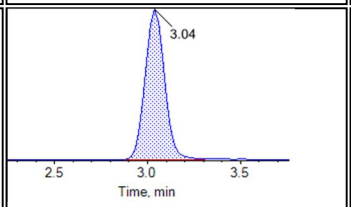
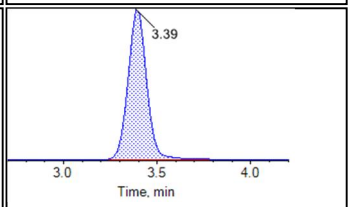
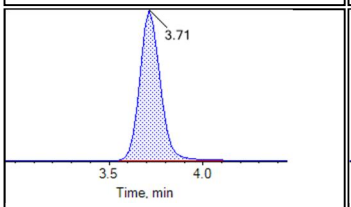


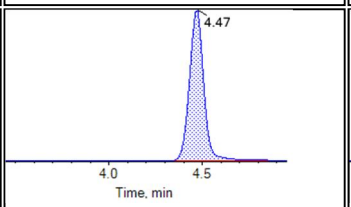
13C9-PFNA



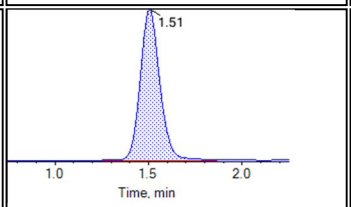
13C6-PFDA



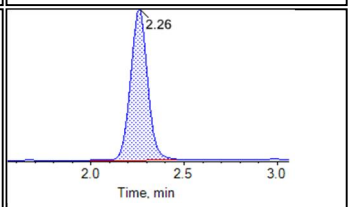
13C7-PFUnA



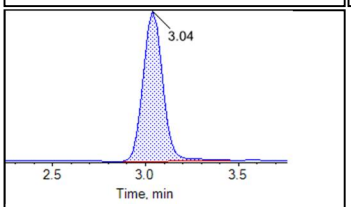
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

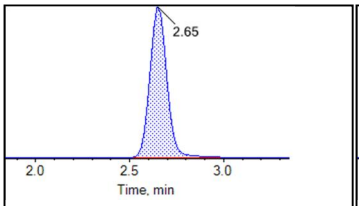


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:22 PM

## Internal Standards:

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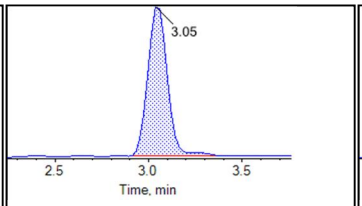
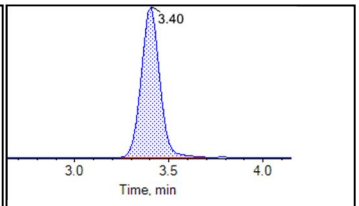



13C4-PFOS




13C2-PFDA

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:27 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(3) | **Injection Vial** | 19 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:24:58 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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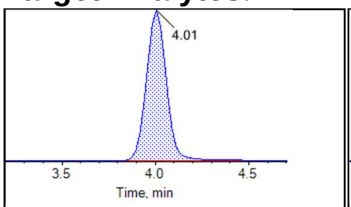

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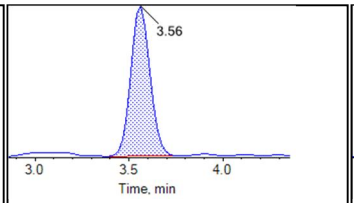

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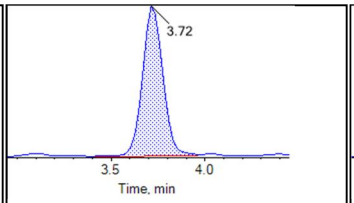

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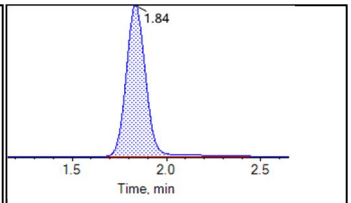
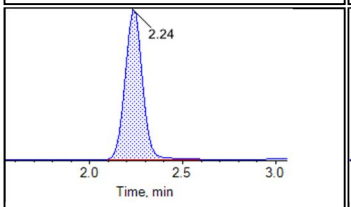


13C5-PFHxA



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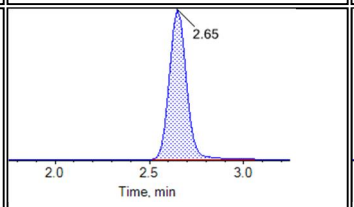
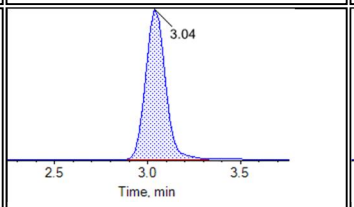
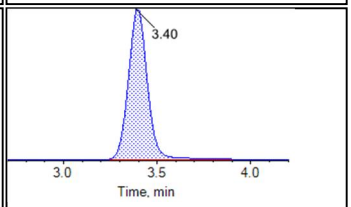


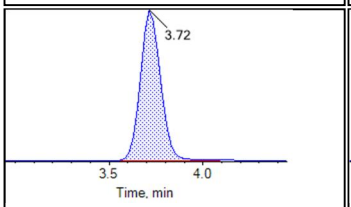
13C8-PFOA



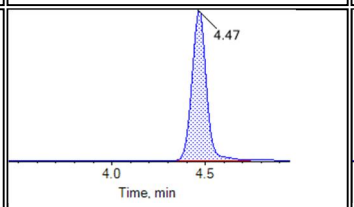
13C9-PFNA



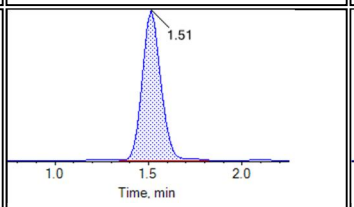
13C6-PFDA



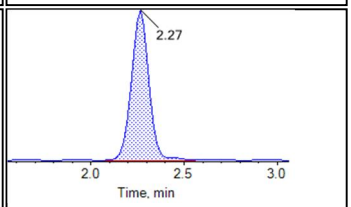
13C7-PFUnA



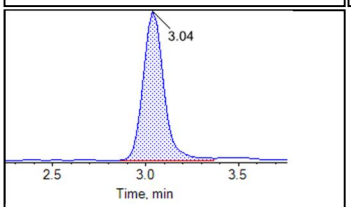
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

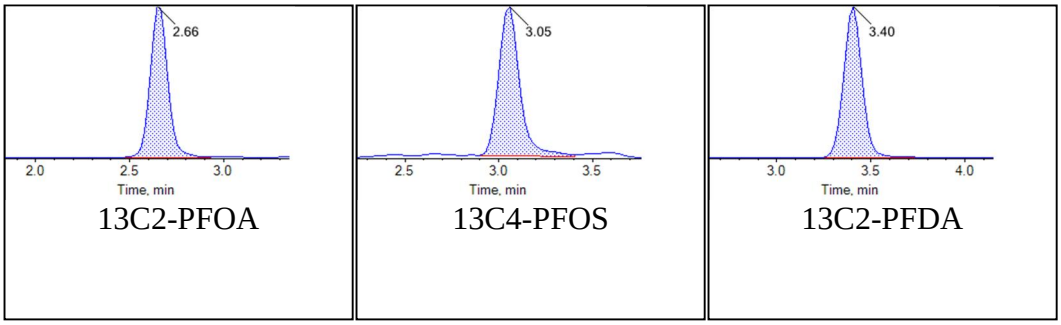


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:27 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:31 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8325MS-FS-D(9) | **Injection Vial** | 20 |
| **Sample ID** | VC-PM323-324-DW02-0918-MS | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:35:49 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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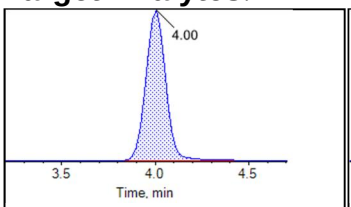
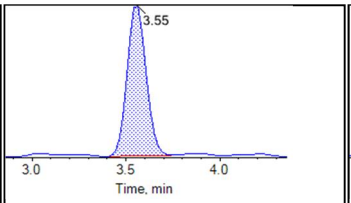
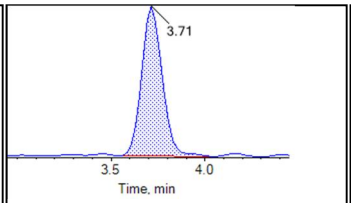


13C2-PFDoA



d3-MeFOSAA



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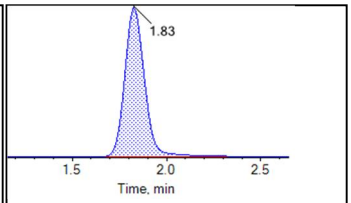

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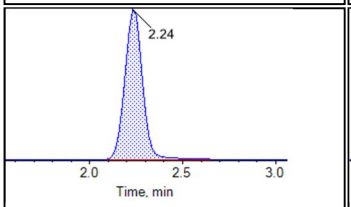

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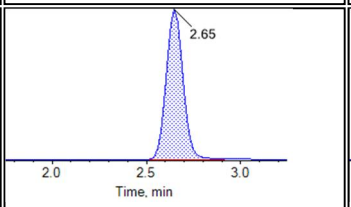

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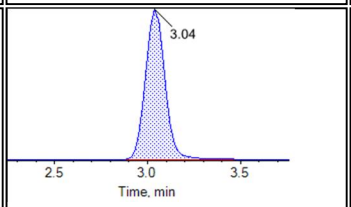

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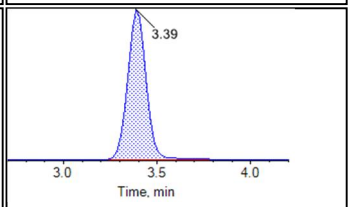
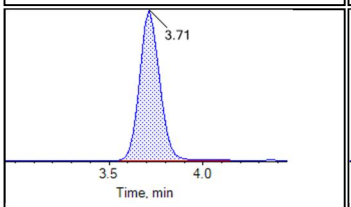
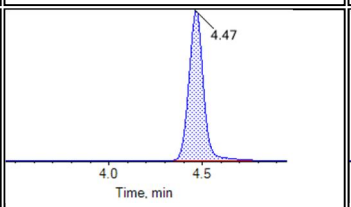


13C6-PFDA



13C7-PFUnA



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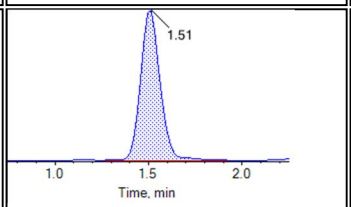
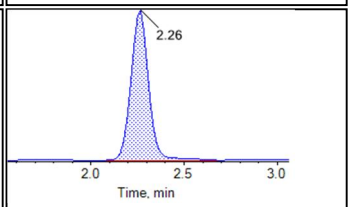


13C3-PFBS



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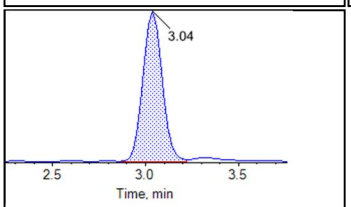

13C8-PFOS

BATTELLE

Chromatogram Report

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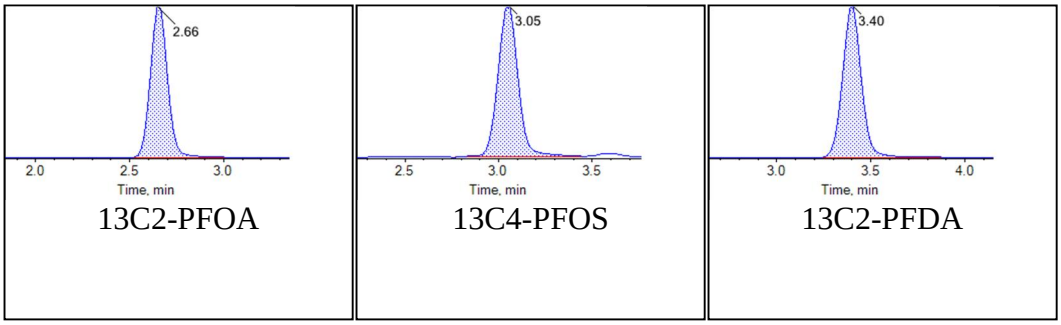
Printed: 22/10/2018 1:53:31 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:35 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(3) | **Injection Vial** | 21 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:46:43 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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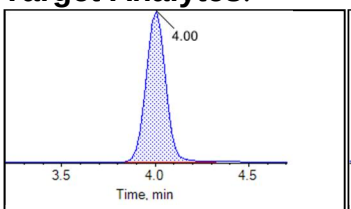
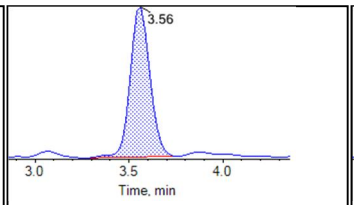
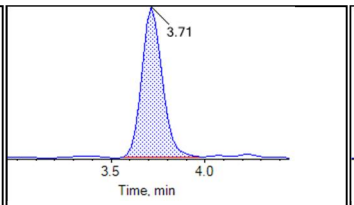


13C2-PFDoA



d3-MeFOSAA



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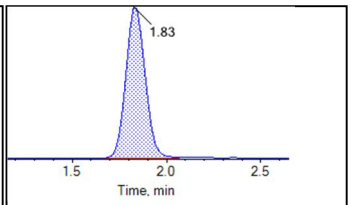

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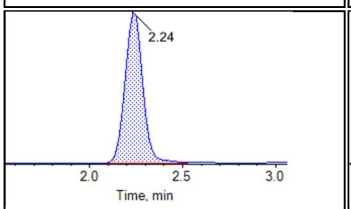
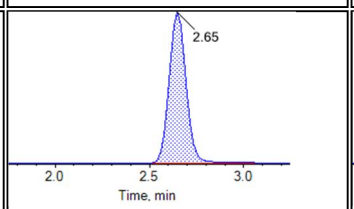
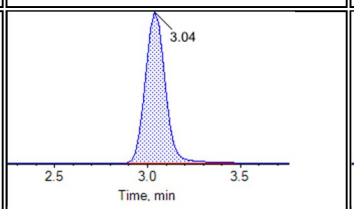


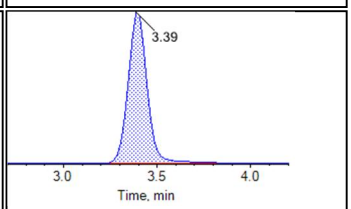
13C4-PFHpA



13C8-PFOA



13C9-PFNA



13C6-PFDA

BATTELLE

Chromatogram Report

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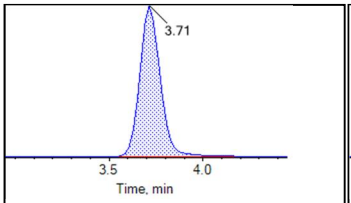
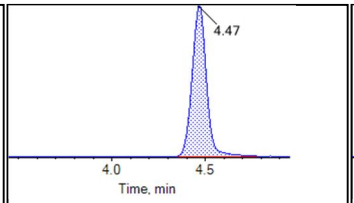
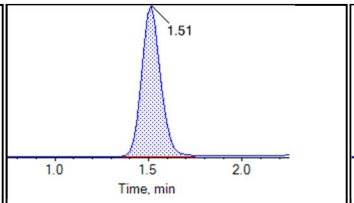


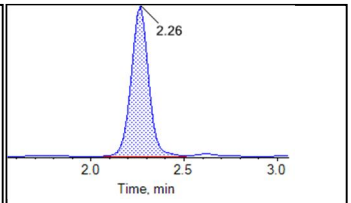
13C7-PFUnA



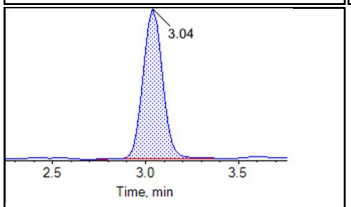
13C2-PFTeDA



13C3-PFBS

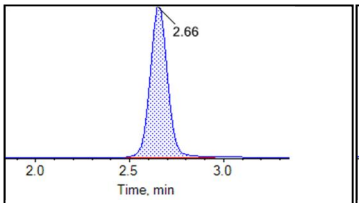


13C3-PFHxS



13C8-PFOS

## Internal Standards:



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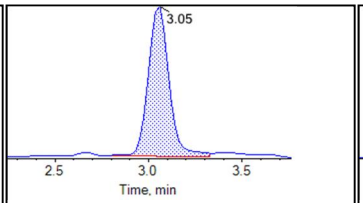
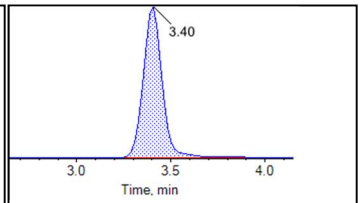


13C4-PFOS



13C2-PFDA

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:40 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS-D(9) | **Injection Vial** | 22 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T21:57:34 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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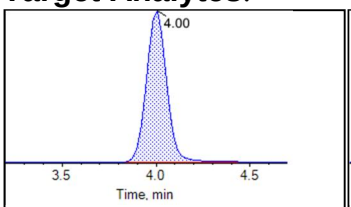
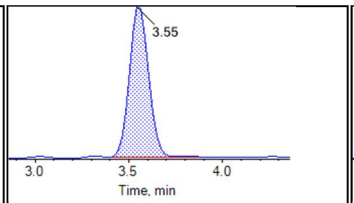
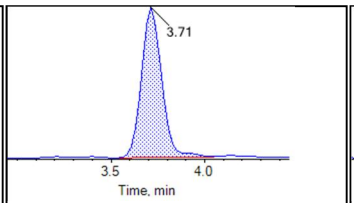


13C2-PFDoA



d3-MeFOSAA



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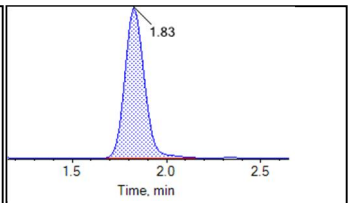

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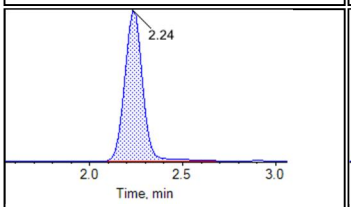

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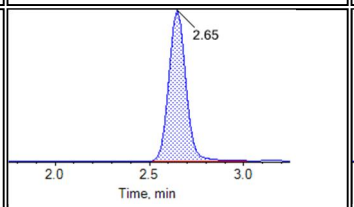

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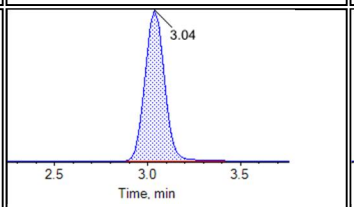
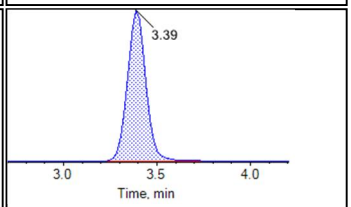


13C9-PFNA



13C6-PFDA

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Chromatogram Report

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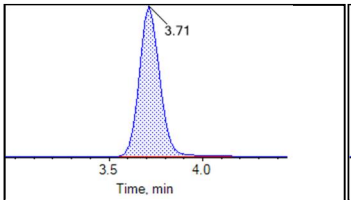


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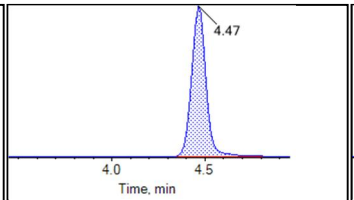


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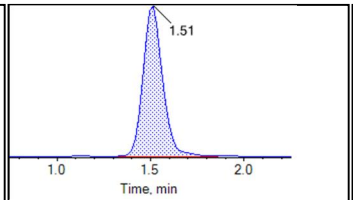
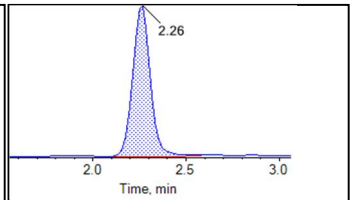
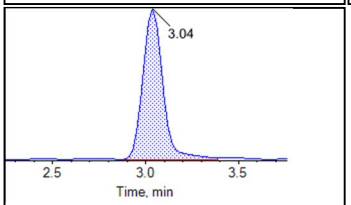



13C3-PFBS




13C3-PFHxS




13C8-PFOS

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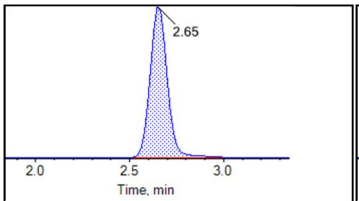
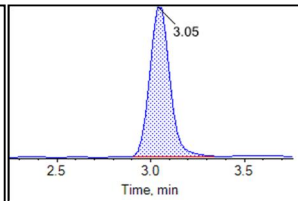
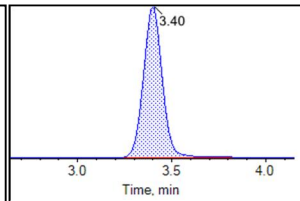



13C2-PFOA




13C4-PFOS




13C2-PFDA

BATTELLE

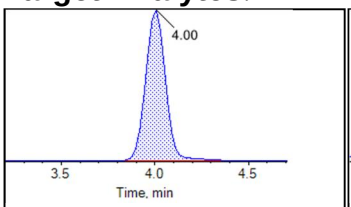
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:48 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 24 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:19:19 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:



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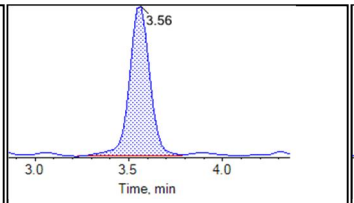
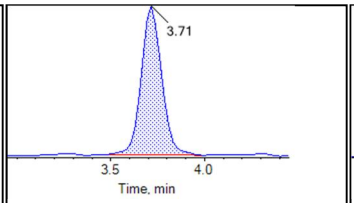


d3-MeFOSAA



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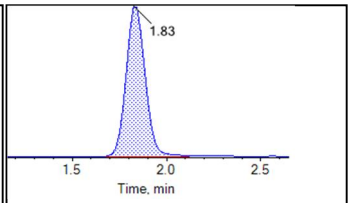

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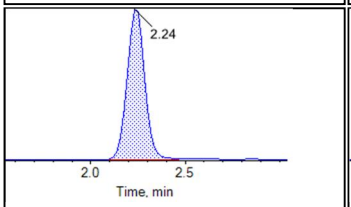

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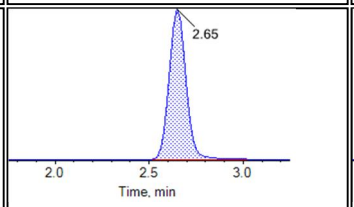

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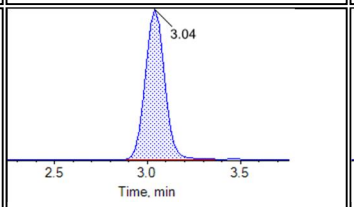

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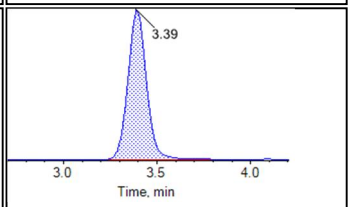

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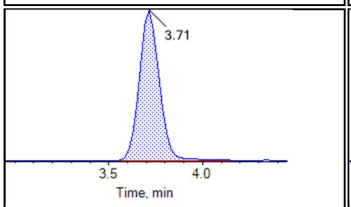

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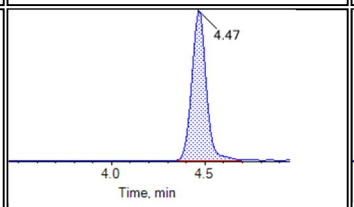

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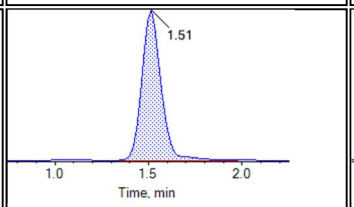
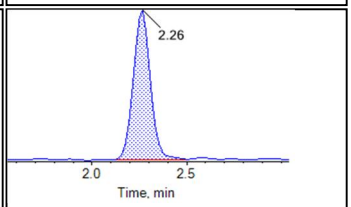
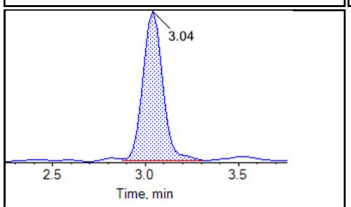


13C3-PFBS



13C3-PFHxS



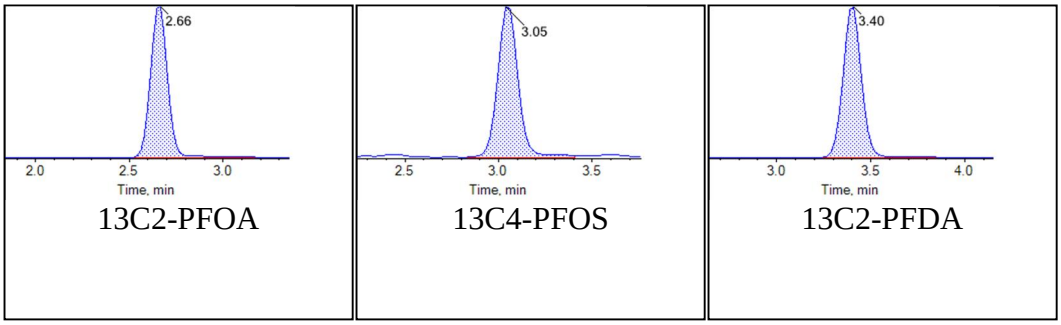
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:48 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:56 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8322-FS-D(9) | **Injection Vial** | 26 |
| **Sample ID** | VC-PM323-324-DW03-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T22:41:02 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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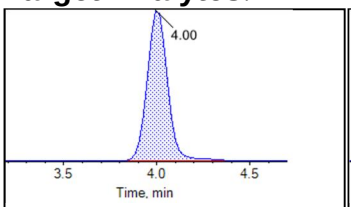

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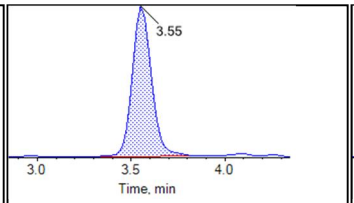
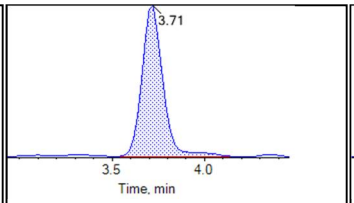
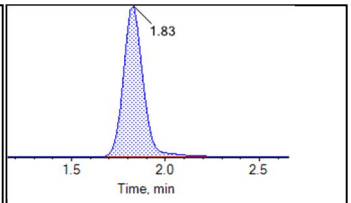


d3-MeFOSAA



d5-EtFOSAA



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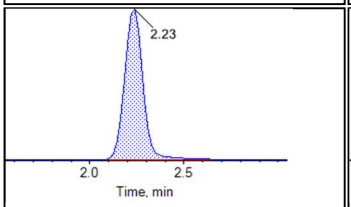
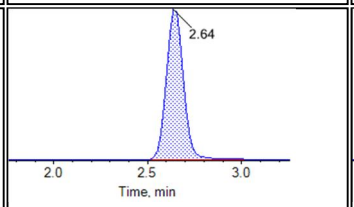
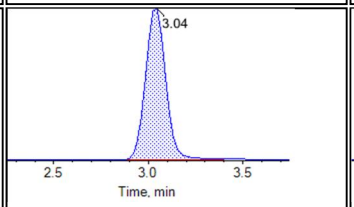


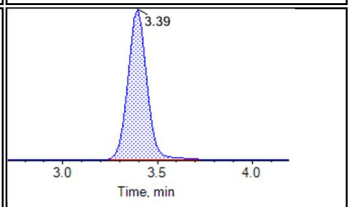
13C4-PFHpA



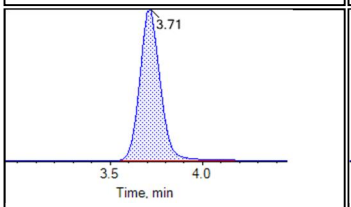
13C8-PFOA



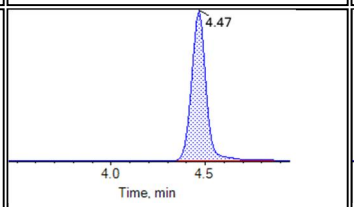
13C9-PFNA



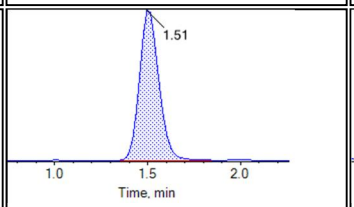
13C6-PFDA



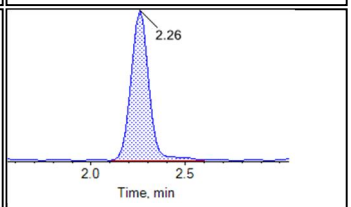
13C7-PFUnA



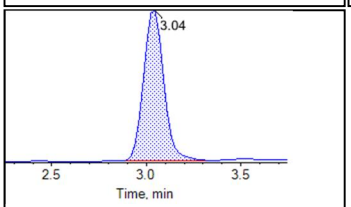
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



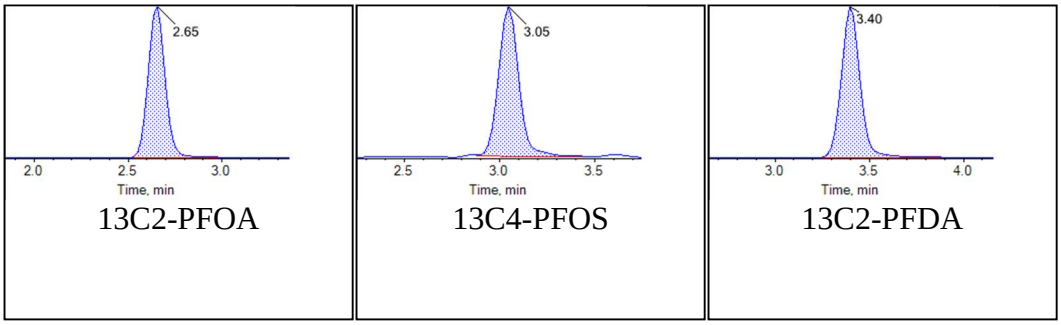
13C8-PFOS

BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:53:56 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:54:06 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8289-FS-D(5) | **Injection Vial** | 28 |
| **Sample ID** | VC-CS94-DW04-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:02:44 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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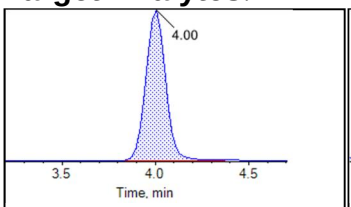
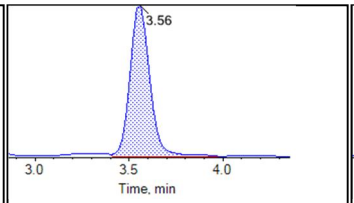
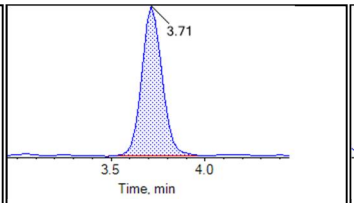


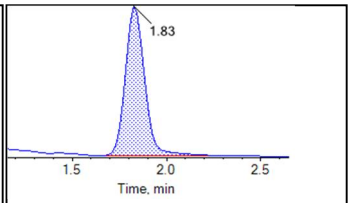
13C2-PFDoA



d3-MeFOSAA



d5-EtFOSAA



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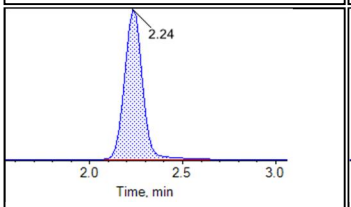
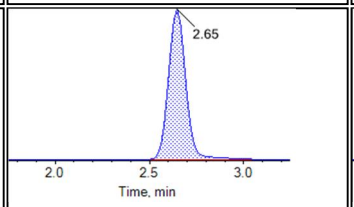
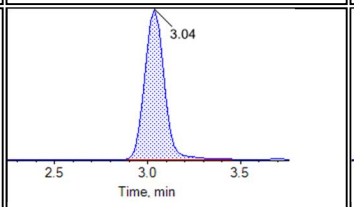


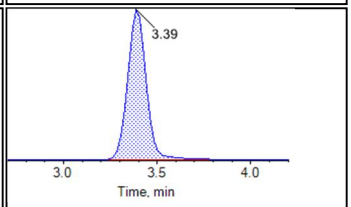
13C4-PFHpA



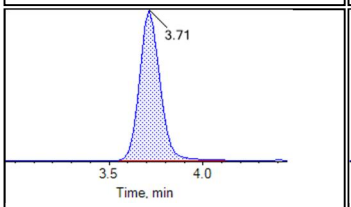
13C8-PFOA



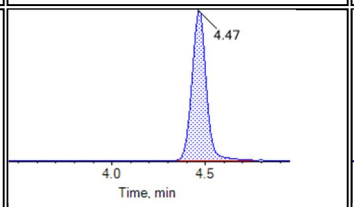
13C9-PFNA



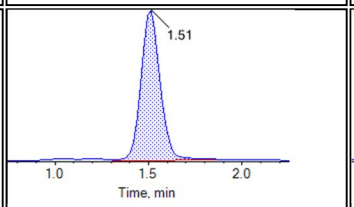
13C6-PFDA



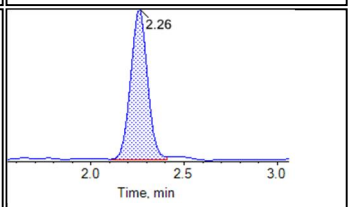
13C7-PFUnA



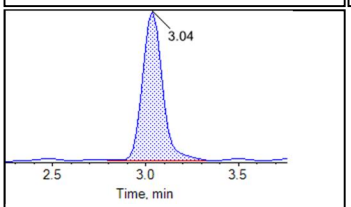
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS



13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
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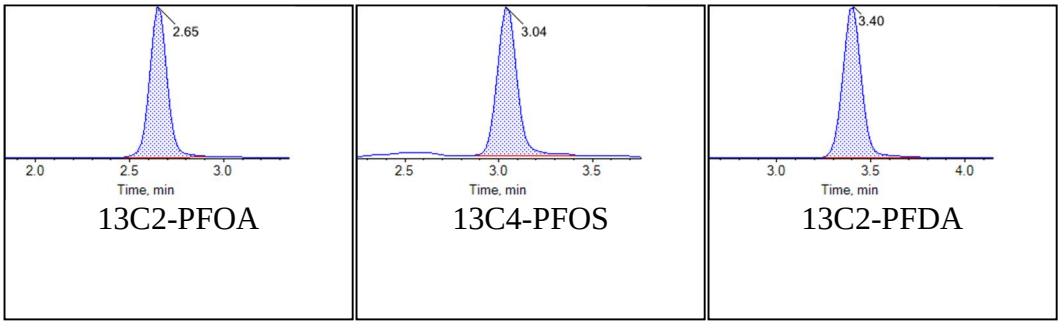
**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:54:20 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 31 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-10T23:35:21 | **Data File** | 10102018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580A_SIS |
| **Sample Comment** | | | |

## Chromatograms

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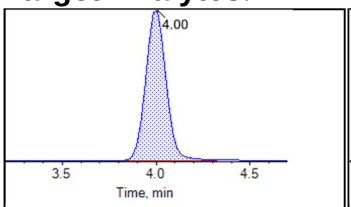
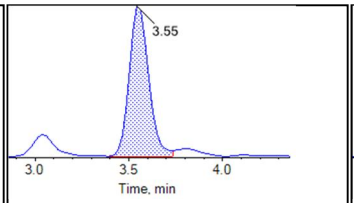
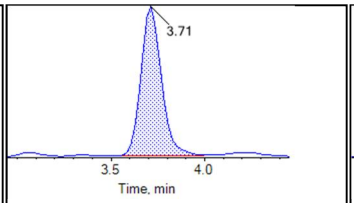


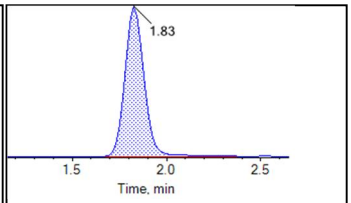
13C2-PFDoA



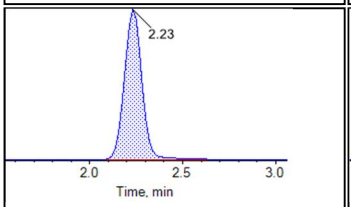
d3-MeFOSAA



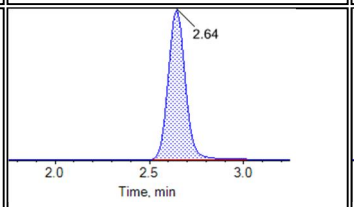
d5-EtFOSAA



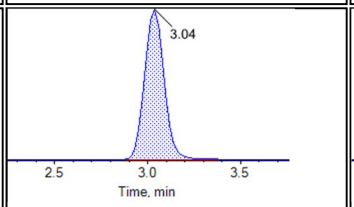
13C5-PFHxA



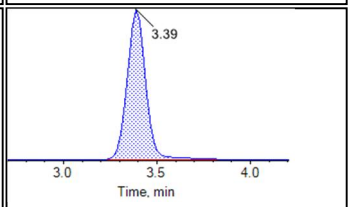
13C4-PFHpA



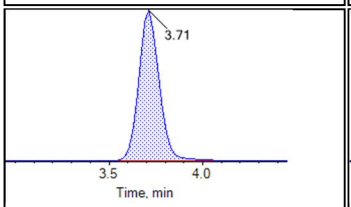
13C8-PFOA



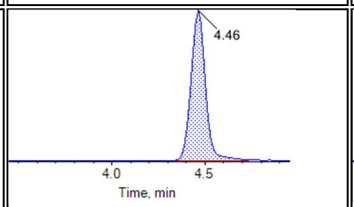
13C9-PFNA



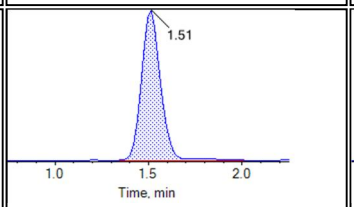
13C6-PFDA



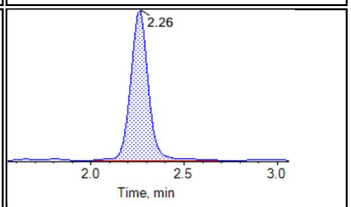
13C7-PFUnA



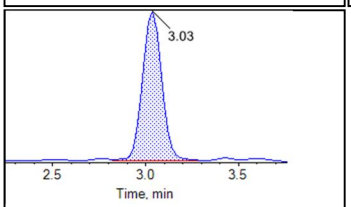
13C2-PFTeDA



13C3-PFBS



13C3-PFHxS

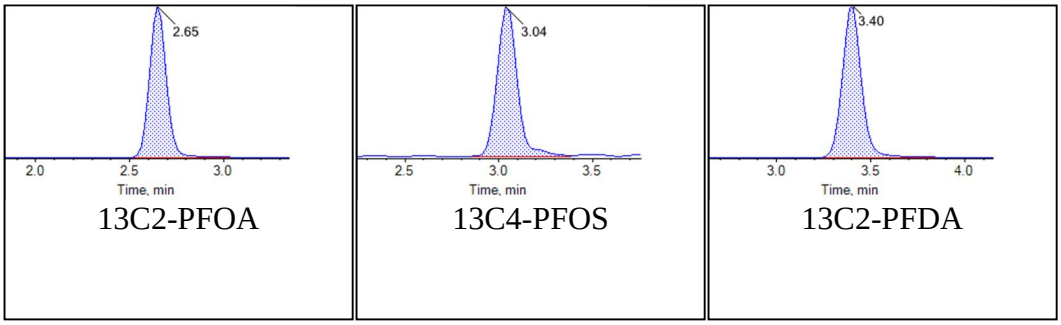


13C8-PFOS

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 1:54:20 PM

**Internal Standards:**



BATTELLE

Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:35 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

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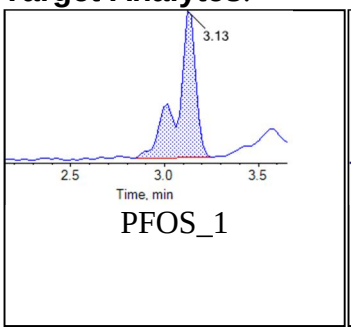
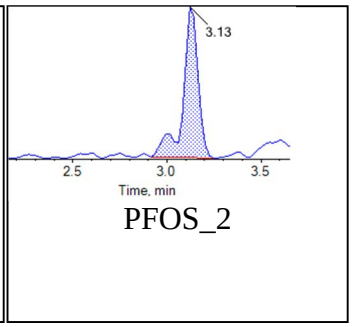
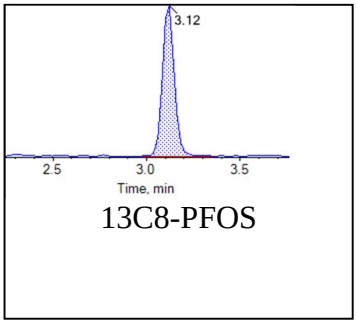


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

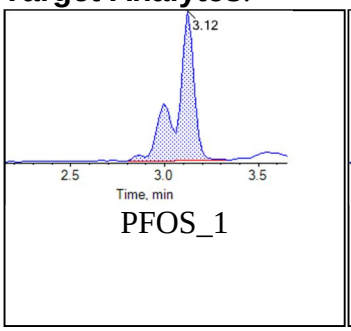
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:39 PM

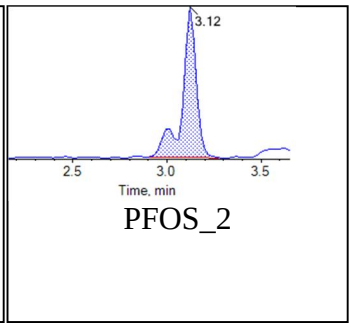
| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

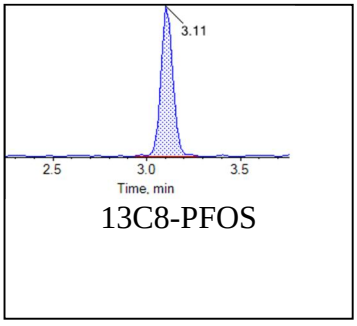


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

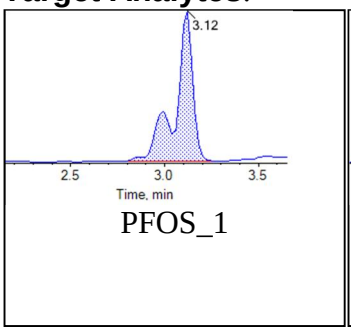
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:44 PM

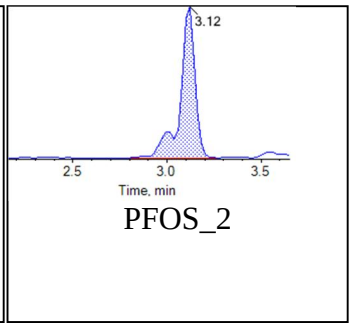
| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

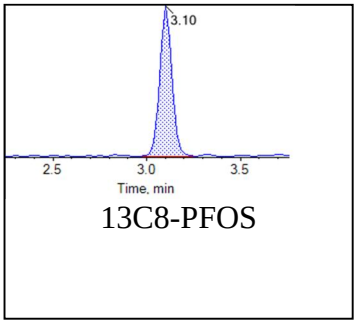


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

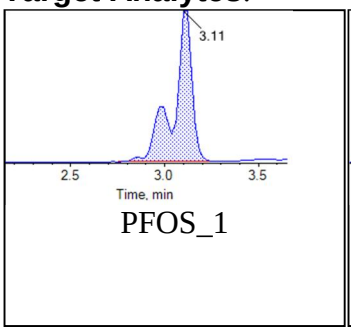
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:48 PM

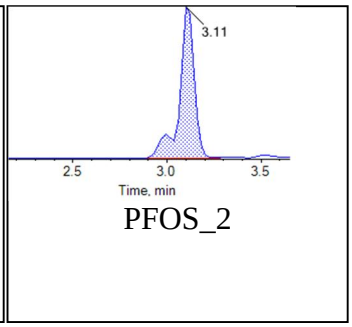
| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

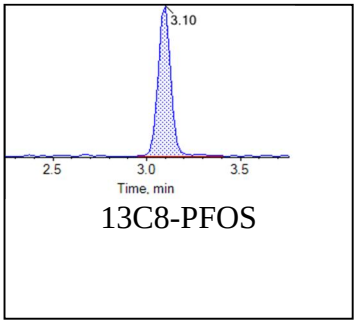


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

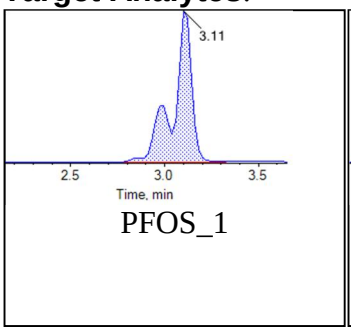
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:52 PM

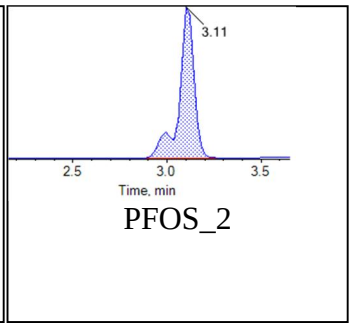
| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

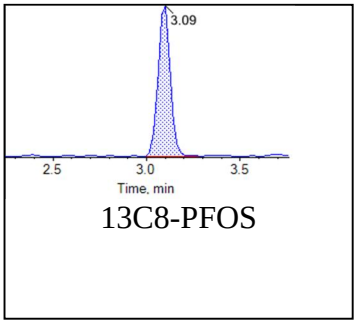


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

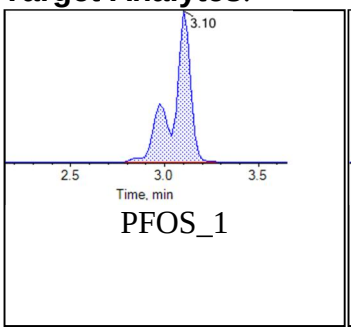
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:56 PM

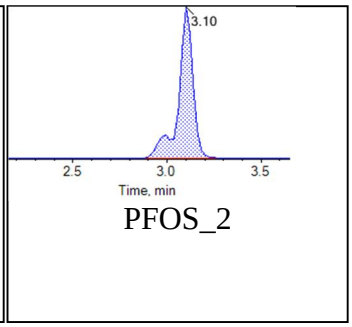
| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

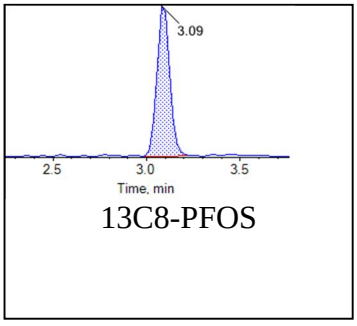


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

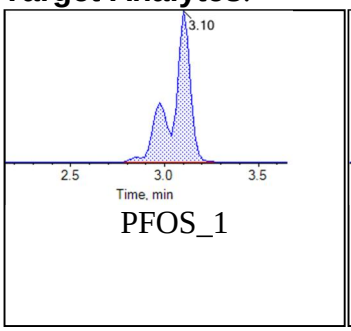
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:01 PM

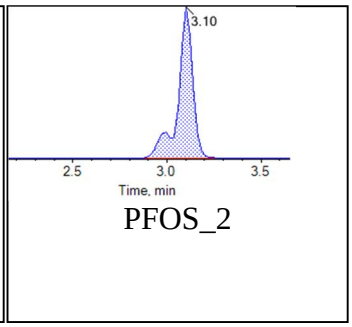
| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

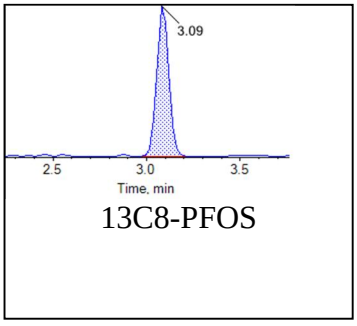


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

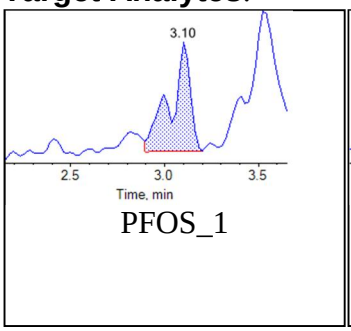
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:05 PM

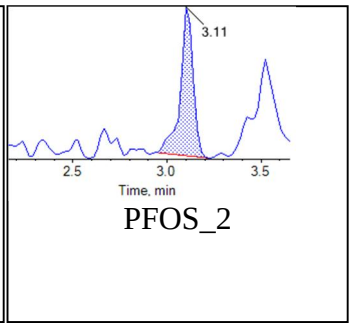
| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

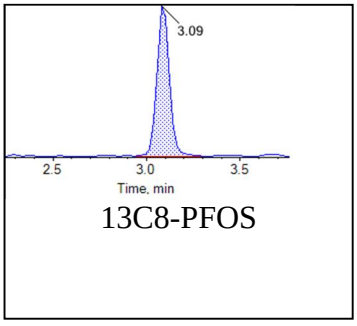


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

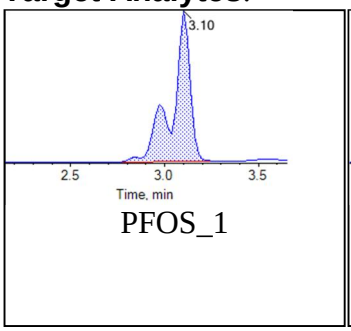
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:09 PM

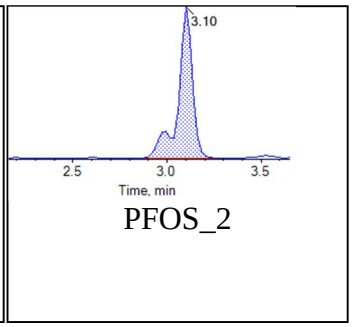
| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

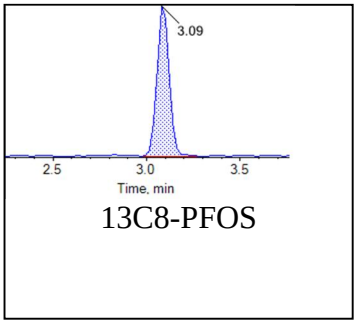


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

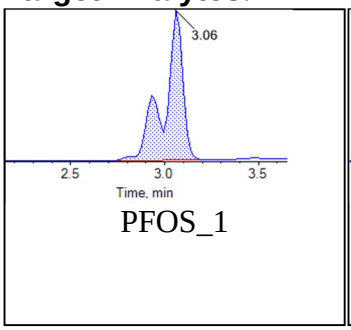
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:22 PM

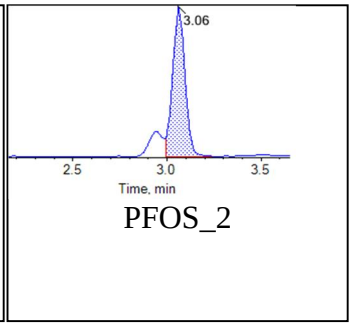
| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

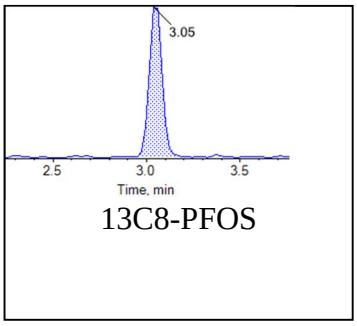


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

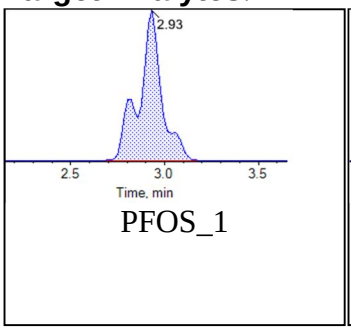
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:26 PM

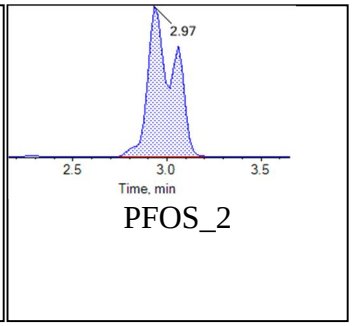
| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(13) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:46:05 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

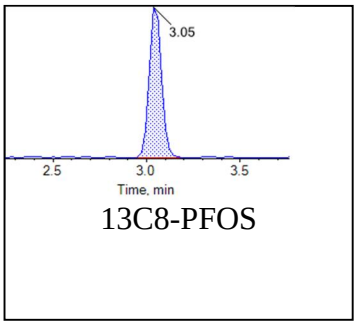


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

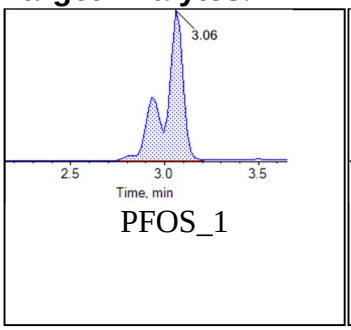
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:30 PM

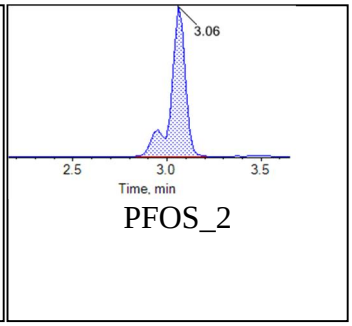
| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

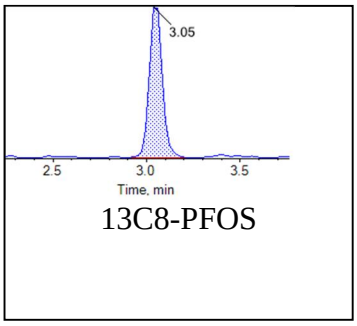


PFOS_1



PFOS_2

### Internal Standards:



13C8-PFOS

BATTELLE

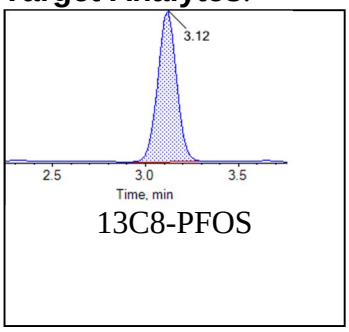
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:18 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

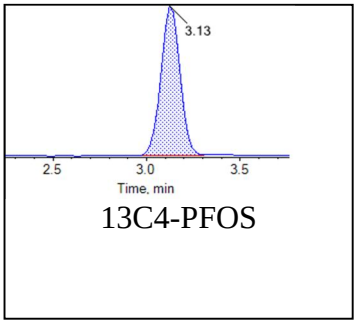
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

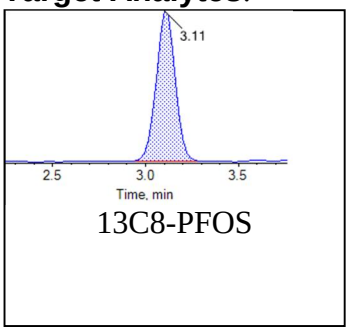
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:22 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

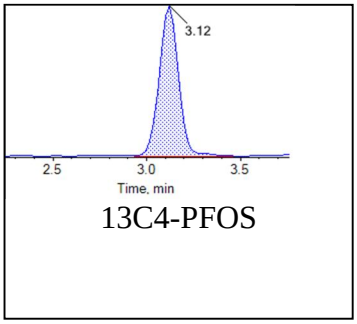
## Chromatograms

### Target Analytes:



13C8-PFOS

### Internal Standards:



13C4-PFOS

BATTELLE

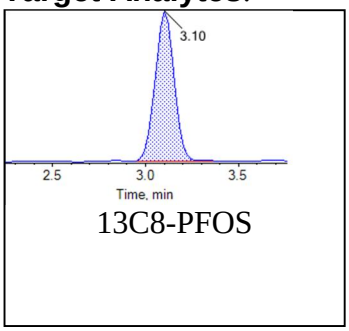
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:26 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

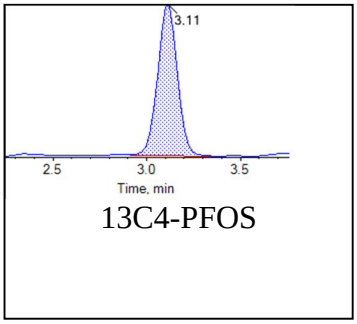
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

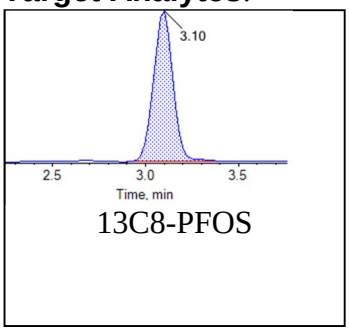
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:30 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

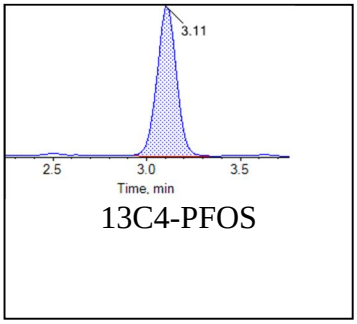
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

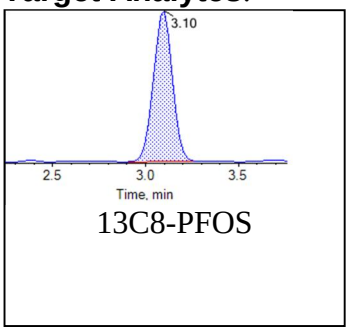
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:35 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

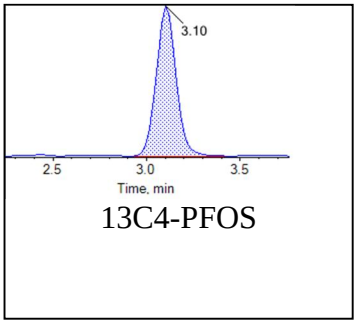
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

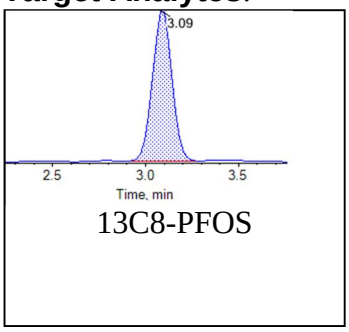
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:39 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

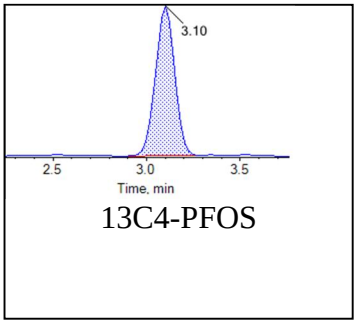
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

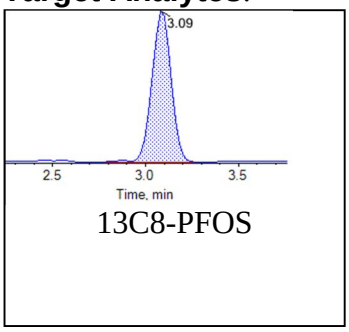
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:43 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

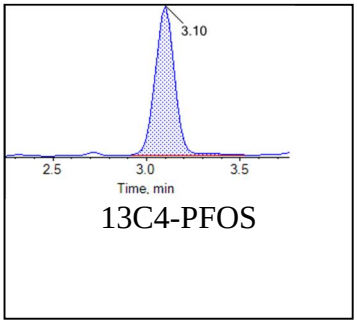
## Chromatograms

### Target Analytes:



13C8-PFOS

### Internal Standards:



13C4-PFOS

BATTELLE

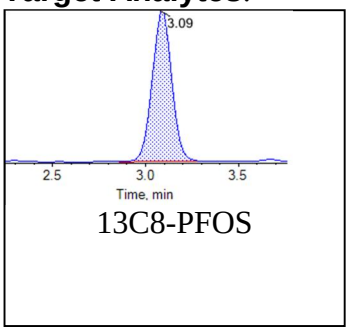
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:47 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

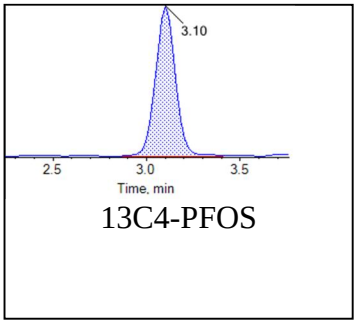
## Chromatograms

### Target Analytes:



13C8-PFOS

### Internal Standards:



13C4-PFOS

BATTELLE

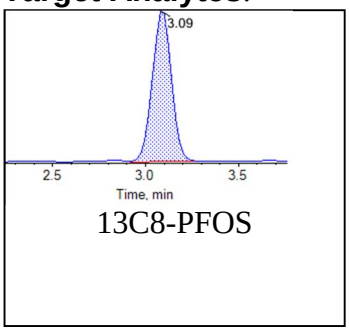
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:01:51 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

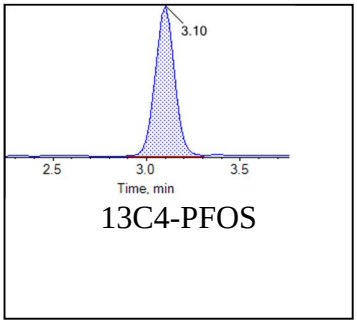
## Chromatograms

### Target Analytes:



13C8-PFOS

### Internal Standards:



13C4-PFOS

BATTELLE

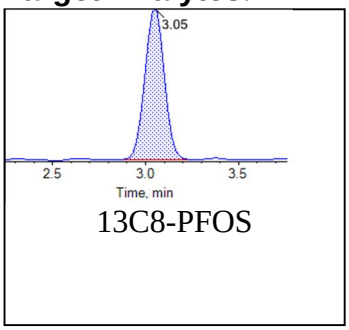
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:04 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 10 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T01:29:53 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

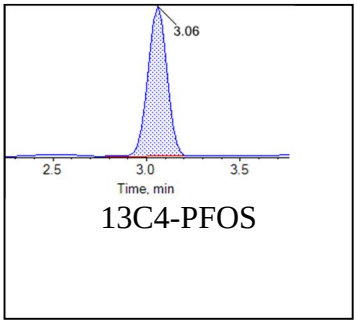
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

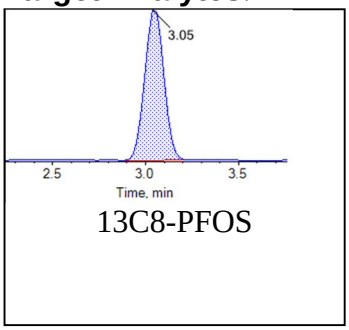
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(13) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:46:05 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

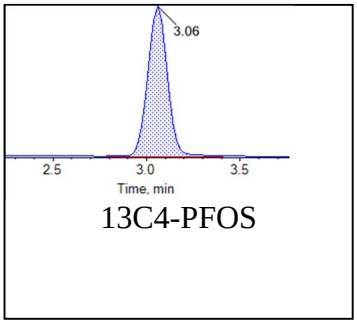
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

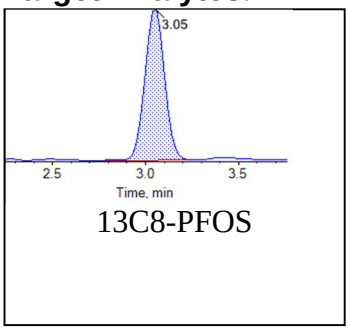
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:02:14 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 18 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T02:56:57 | **Data File** | 18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580C_SIS |
| **Sample Comment** | | | |

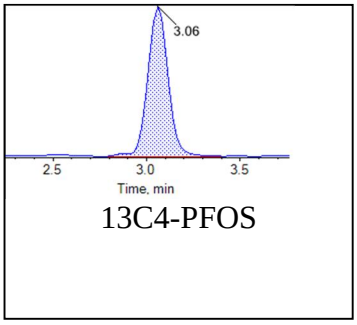
## Chromatograms

### Target Analytes:




13C8-PFOS

### Internal Standards:




13C4-PFOS

BATTELLE

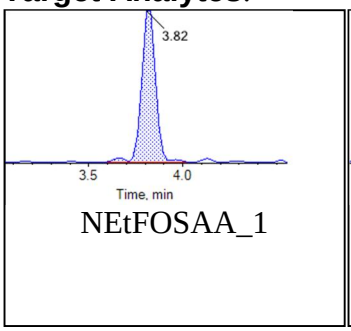
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:25 PM

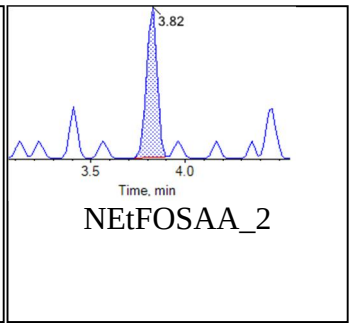
| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

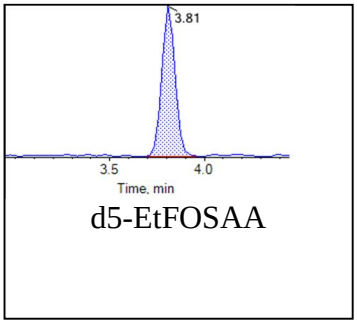


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

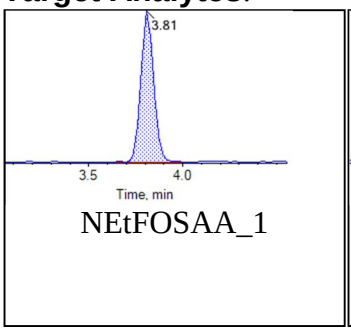
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:30 PM

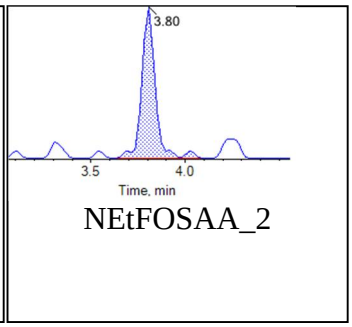
| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

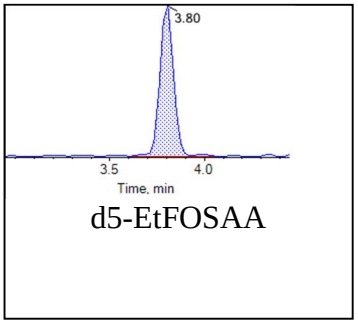


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

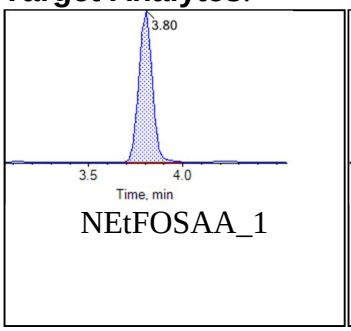
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:33 PM

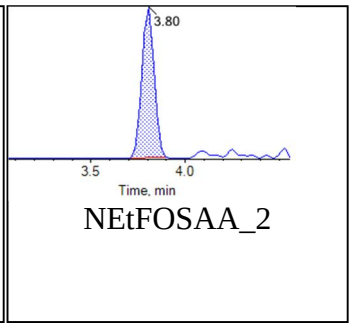
| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

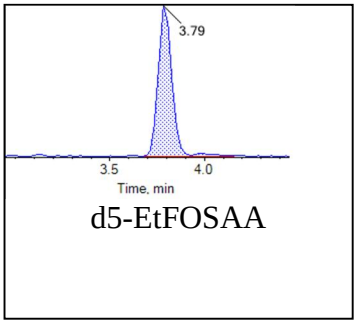


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

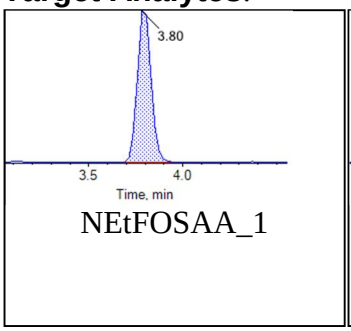
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:37 PM

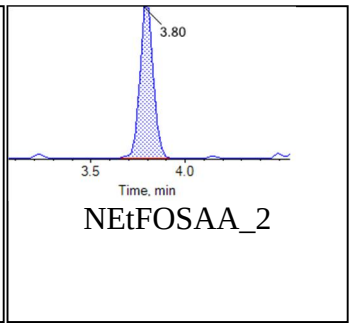
| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

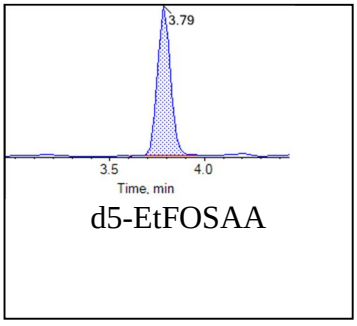


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

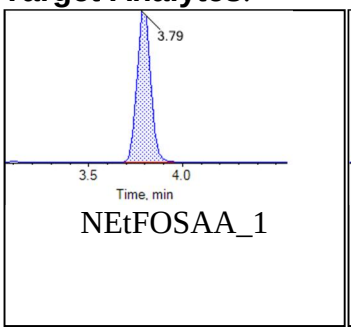
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:41 PM

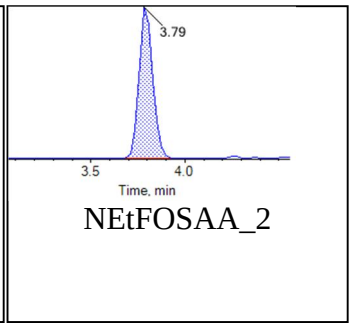
| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

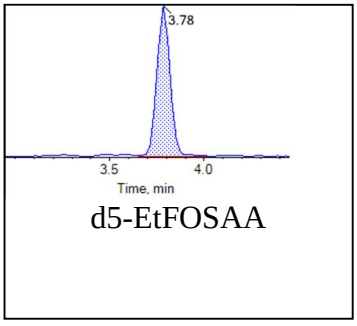


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

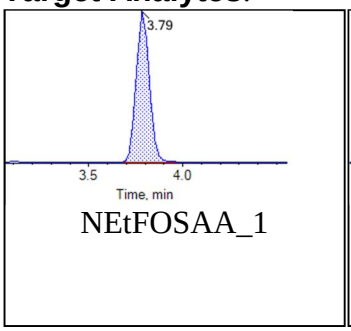
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:45 PM

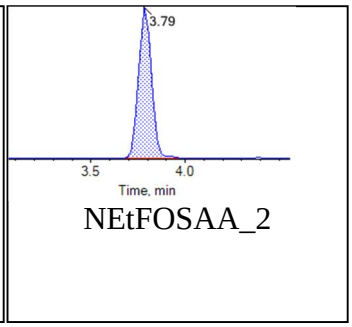
| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

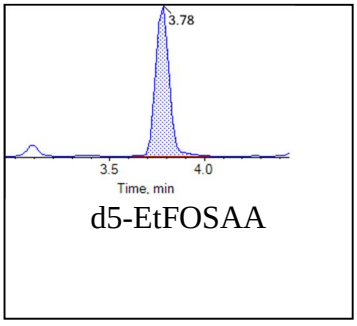


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

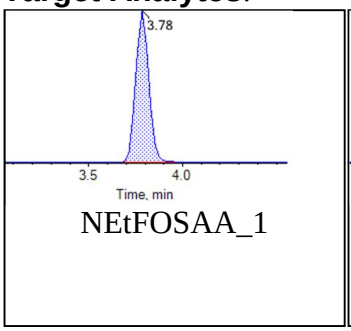
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:49 PM

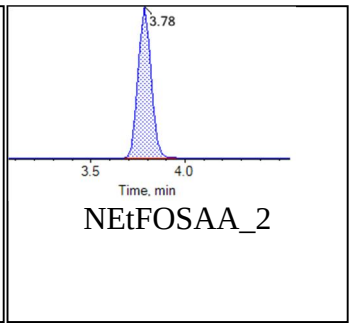
| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

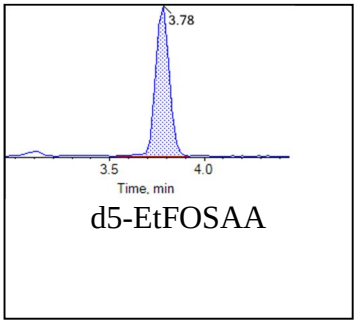


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

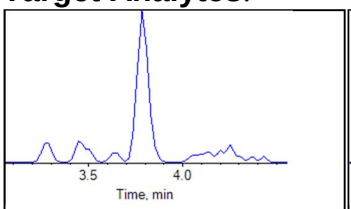
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:53 PM

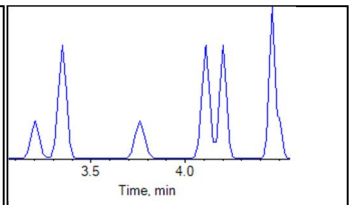
| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

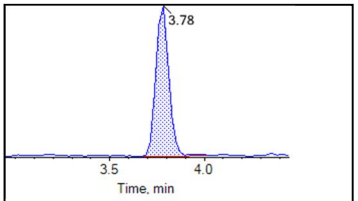


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

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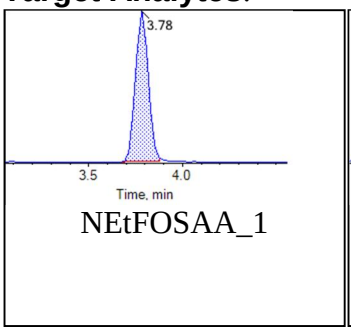
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:57 PM

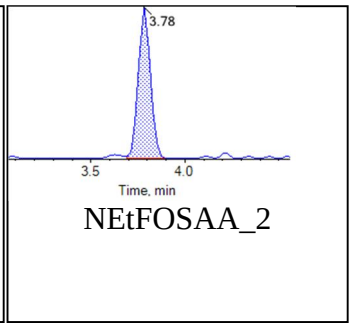
| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

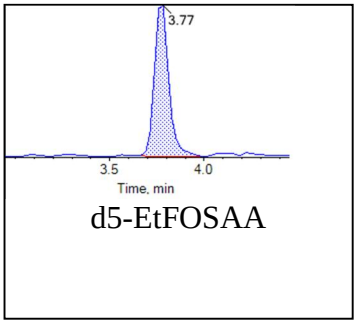


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

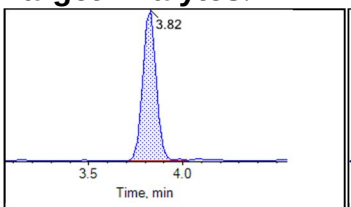
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:06:10 PM

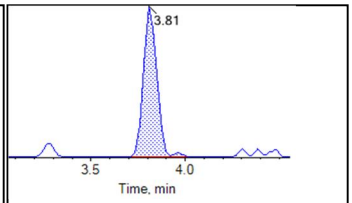
| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

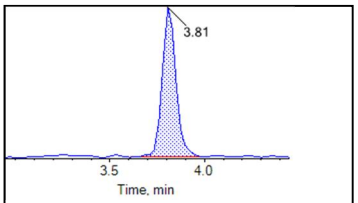


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

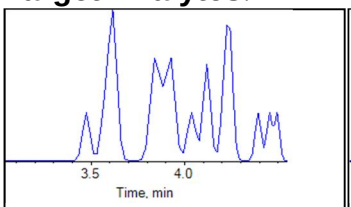
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:06:14 PM

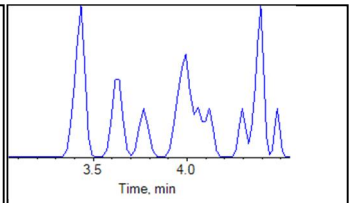
| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:27:43 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

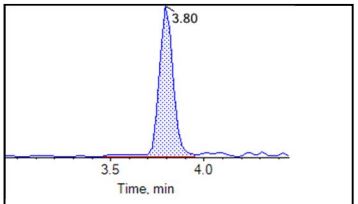


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

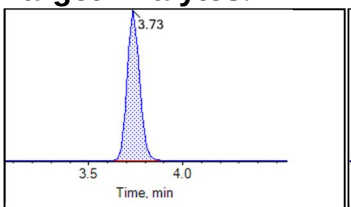
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:06:22 PM

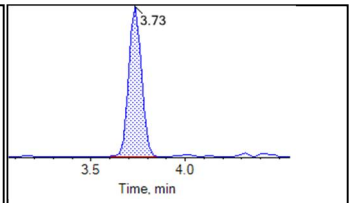
| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

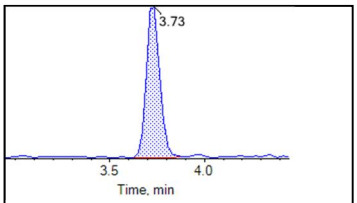


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

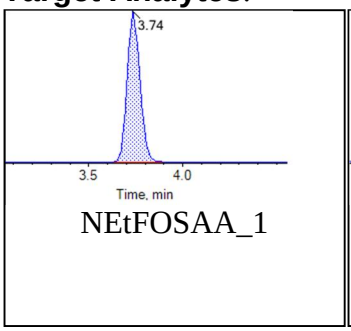
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:06:31 PM

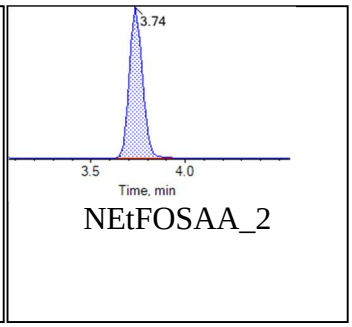
| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:03:07 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

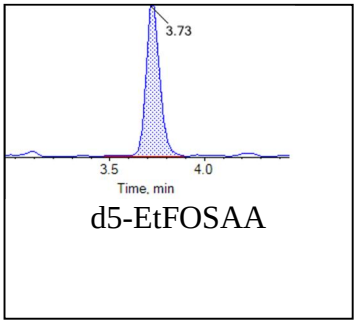


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

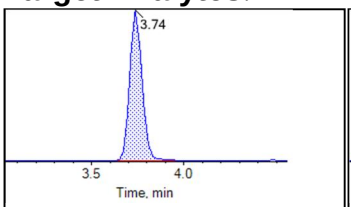
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:06:35 PM

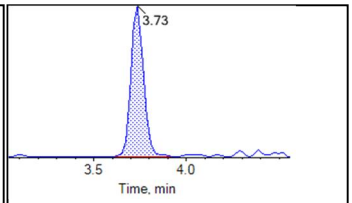
| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_BASE |
| **Sample Comment** | | | |

## Chromatograms

### Target Analytes:

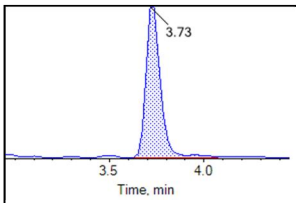


NEtFOSAA_1



NEtFOSAA_2

### Internal Standards:



d5-EtFOSAA

BATTELLE

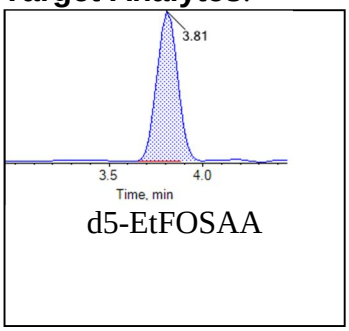
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:53 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB73 | **Injection Vial** | 2 |
| **Sample ID** | L1 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:46:52 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

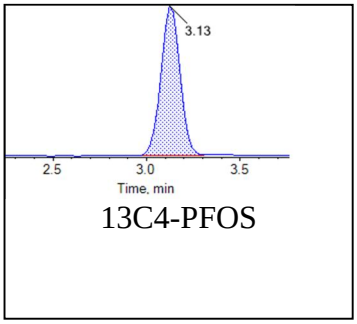
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

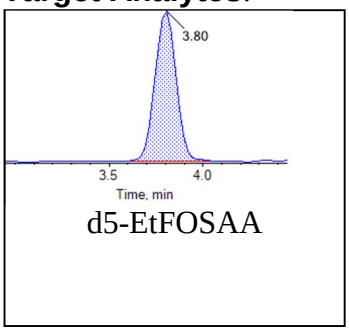
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:03:57 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB74 | **Injection Vial** | 3 |
| **Sample ID** | L2 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T19:57:45 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

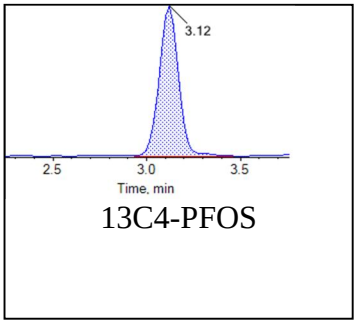
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

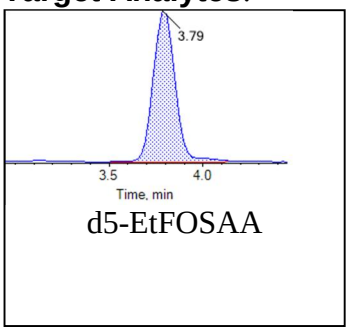
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:03 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 | **Injection Vial** | 4 |
| **Sample ID** | L3 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:08:39 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

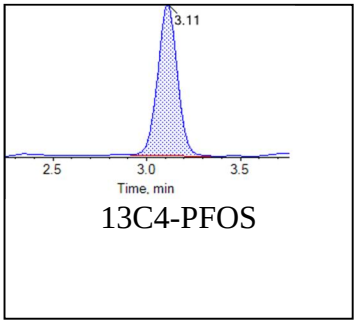
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

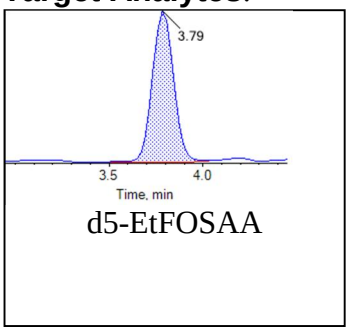
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:08 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 | **Injection Vial** | 5 |
| **Sample ID** | L4 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:19:32 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

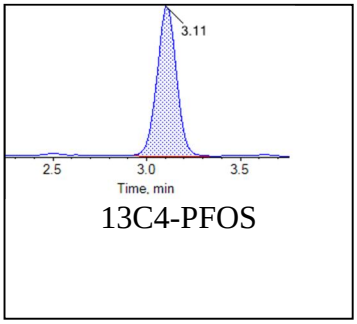
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

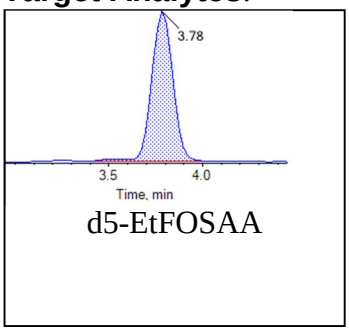
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:12 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 | **Injection Vial** | 6 |
| **Sample ID** | L5 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:30:23 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

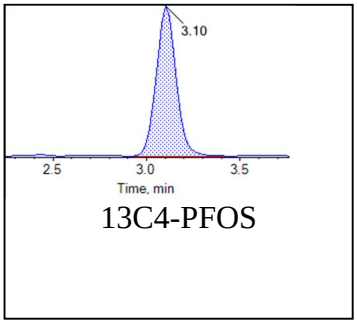
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

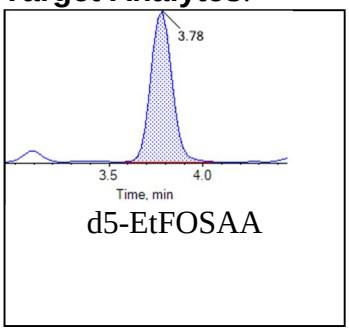
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:16 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB78 | **Injection Vial** | 7 |
| **Sample ID** | L6 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:41:14 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

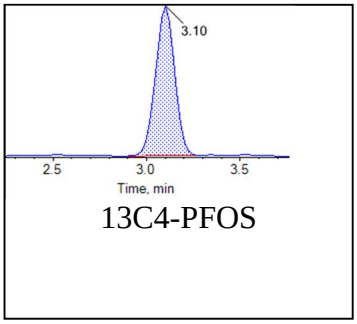
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

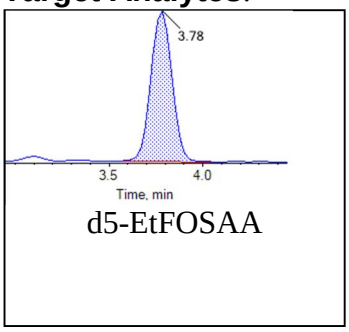
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:21 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB79 | **Injection Vial** | 8 |
| **Sample ID** | L7 | **Injection Volume** | 10.00 |
| **Sample Type** | Standard | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T20:52:06 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

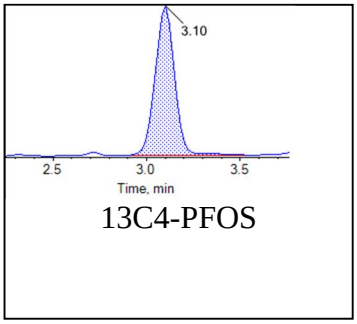
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

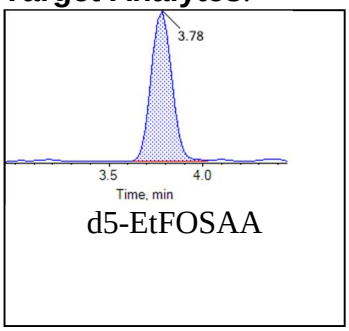
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:25 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 9 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:02:57 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

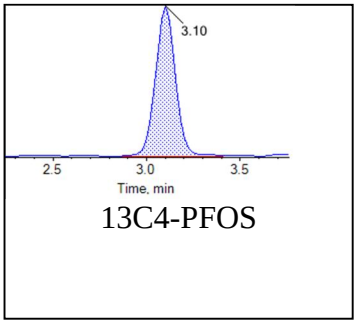
## Chromatograms

### Target Analytes:



d5-EtFOSAA

### Internal Standards:



13C4-PFOS

BATTELLE

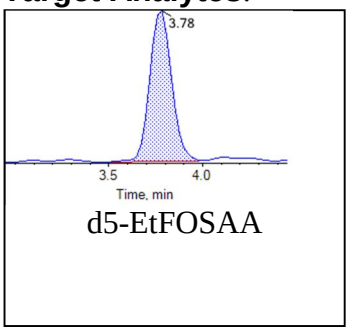
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:29 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB81 ICC | **Injection Vial** | 10 |
| **Sample ID** | ICC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-17T21:13:49 | **Data File** | Data18-0590_18-01588_18-0589.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

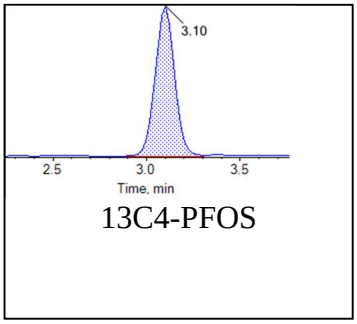
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

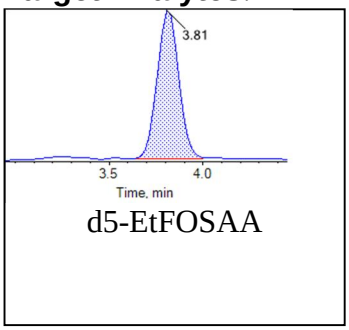
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:42 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB75 ISC | **Injection Vial** | 1 |
| **Sample ID** | ISC | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:16:51 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

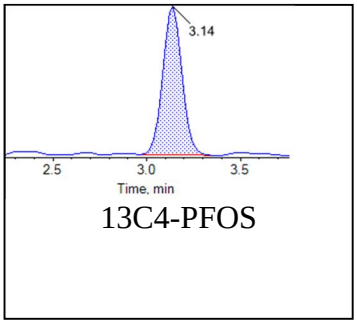
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

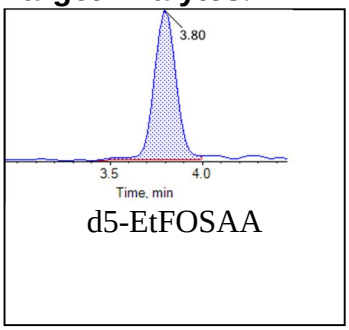
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:45 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB80 IB | **Injection Vial** | 2 |
| **Sample ID** | Instrument Blank | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-19T18:27:43 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

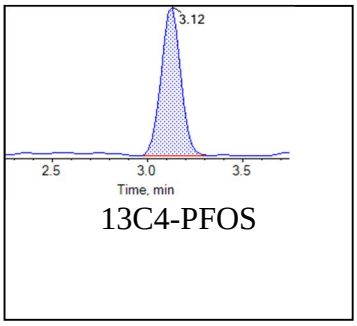
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

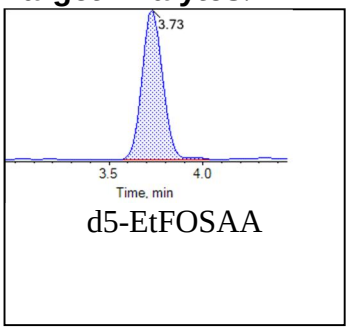
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:04:52 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB77 CCV | **Injection Vial** | 7 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T06:03:27 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

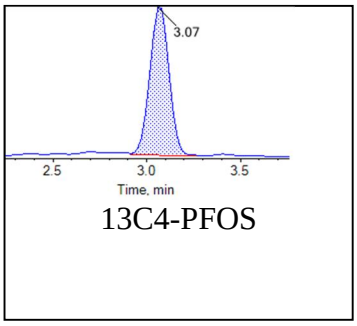
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

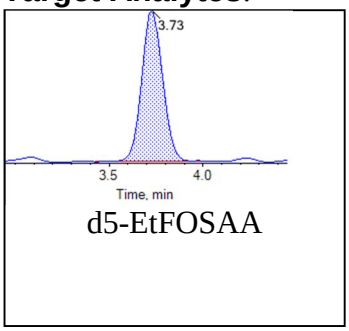
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:00 PM

| | | | |
|---|---|---|---|
| **Sample Name** | J8326MSD-FS(0) | **Injection Vial** | 17 |
| **Sample ID** | VC-PM323-324-DW02-0918-MSD | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:03:07 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

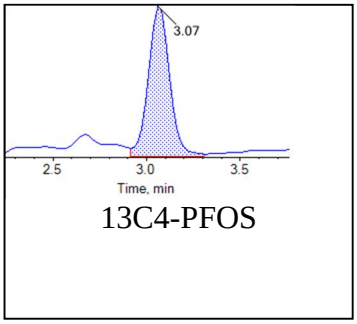
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

BATTELLE

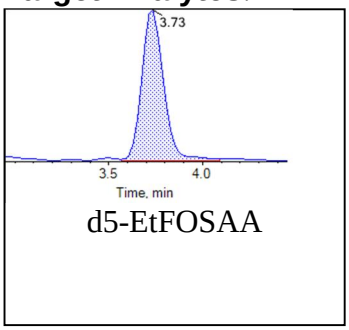
Chromatogram Report

Created with Analyst Reporter
Printed: 22/10/2018 2:05:04 PM

| | | | |
|---|---|---|---|
| **Sample Name** | KB76 CCV | **Injection Vial** | 50 |
| **Sample ID** | CCV | **Injection Volume** | 10.00 |
| **Sample Type** | Quality Control | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-20T08:24:52 | **Data File** | 10192018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580D_SIS |
| **Sample Comment** | | | |

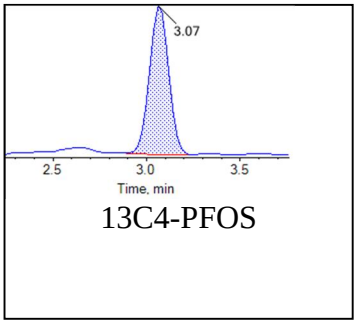
## Chromatograms

### Target Analytes:




d5-EtFOSAA

### Internal Standards:




13C4-PFOS

# Unused Data

Results from this dilution were inconsistent with what was expected. The dilution was reprepared from the undiluted extract and reanalyzed. LMG 10/22/18



BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 22/10/2018 11:49:14 AM

| Vial | Laboratory Sample ID | Client Sample ID | Acquisition Date | Acquisition Method | Data File |
|---|---|---|---|---|---|
| 1 | MeOH | | 10/14/2018 12:14:09 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 2 | KB73 | L1 | 10/14/2018 12:25:01 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 3 | KB74 | L2 | 10/14/2018 12:35:53 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 4 | KB75 | L3 | 10/14/2018 12:46:44 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 5 | KB76 | L4 | 10/14/2018 12:57:36 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 6 | KB77 | L5 | 10/14/2018 1:08:28 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 7 | KB78 | L6 | 10/14/2018 1:19:19 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 8 | KB79 | L7 | 10/14/2018 1:30:11 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 9 | KB80 IB | Instrument Blank | 10/14/2018 1:41:02 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 10 | KB81 ICC | ICC | 10/14/2018 1:51:53 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 11 | KB89 Branch | Branch Standard | 10/14/2018 2:02:45 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 12 | MeOH | | 10/14/2018 2:13:37 PM | 5-0369.dam | 18-0585_18-0583.wiff |
| 1 | KB75 ISC | ISC | 10/15/2018 5:53:40 PM | 5-0369.dam | 10152018.wiff |
| 2 | KB80 IB | Instrument Blank | 10/15/2018 6:04:33 PM | 5-0369.dam | 10152018.wiff |
| 3 | MeOH | | 10/15/2018 6:15:26 PM | 5-0369.dam | 10152018.wiff |
| 4 | J8337-FS-D(11) | VC-PM324-DW02-0918 | 10/15/2018 6:26:19 PM | 5-0369.dam | 10152018.wiff |
| 13 | KB77 CCV | CCV | 10/15/2018 8:04:05 PM | 5-0369.dam | 10152018.wiff |

BATTELLE

Summary Quant Report

Created with Analyst Reporter
Printed: 22/10/2018 11:52:16 AM

| | | | |
|---|---|---|---|
| **Sample Name** | J8337-FS-D(11) | **Injection Vial** | 4 |
| **Sample ID** | VC-PM324-DW02-0918 | **Injection Volume** | 10.00 |
| **Sample Type** | Unknown | **Instrument Name** | QTRAP 5500 |
| **Acquisition Date** | 2018-10-15T18:26:19 | **Data File** | 10152018.wiff |
| **Acquisition Method** | 5-0369.dam | **Result Table** | 18-0580B_BASE |
| **Sample Comment** | | | |

**Results Summary**

| Analyte | MRM Transition | RT | Area | Conc. (ng/L) | Signal/Noise Ratio | Modified |
|---|---|---|---|---|---|---|
| PFOS_1 | 499.0 / 80.0 | 2.95 | 6.80e6 | 7171.563033 | 342.5 | false |
| PFOS_2 | 499.0 / 99.0 | 2.99 | 7.99e5 | 4756.603668 | 312.7 | false |

EDD

| Contract_I | DO_CTO_N | Phase | Installatior | Sample_Ni | CH2M_Cor | Analysis_G | Analytical_ | PRC_Code | Lab_Code | Lab_Name | Leachate_I | SAMPLE_B | Extraction_ | Result_Typ | Lab_QC_ty | SAMPLE_N | QC_Level | DateTime_ | Date_Rece | Leachate_I | Leachate_ | Extraction_ | Extraction_ | Analysis_D | Analysis_T | Lab_Sampl | Dilution | Run_Numb | PERCENT_I | PERCENT_I | Chem_Nan | Analyte_ID | Analyte_Vi | Original_A | Result_Uni | Lab_Qualif | Validator_ | GC_Colum | Analysis_R | Result_Nar | QC_Contro | QC_Accura | QC_Accura | Control_Lir | QC_Narrat | MDL | | Detection_Q | SQM_Vers | DL | | LOD | | LOQ | | SDG | Analysis_B | Validator_ | Val_Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluoroh | 307-24-4 | 0.5 | NG_L | U | | TRG | | | | 20171116 | | 0.19 | 0.19 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluoro | 375-85-9 | 0.5 | NG_L | U | | TRG | | | | 20171116 | | 0.16 | 0.16 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluoroo | 335-67-1 | 0.9 | NG_L | J | | TRG | | | | 20171116 | | 0.18 | 0.18 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluoro | 375-95-1 | 1 | NG_L | U | | TRG | | | | 20171116 | | 0.26 | 0.26 | 5.1 | 70 | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluorod | 335-76-2 | 0.5 | NG_L | U | | TRG | | | | 20171116 | | 0.16 | 0.16 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluorou | 2058-94-8 | 1 | NG_L | U | | TRG | | | | 20171116 | | 0.29 | 0.29 | 5.1 | 70 | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluoro | 307-55-1 | 0.5 | NG_L | U | | TRG | | | | 20171116 | | 0.18 | 0.18 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluorot | 72629-94-8 | 0.5 | NG_L | U | | TRG | | | | 20171116 | | 0.15 | 0.15 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluorot | 376-06-7 | 1 | NG_L | U | | TRG | | | | 20171116 | | 0.25 | 0.25 | 5.1 | 70 | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | N-Methyl | FZ355-31-9 | 2 | NG_L | U | | TRG | | | | 20171116 | | 0.56 | 0.56 | 5.1 | 70 | 2 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | N-Ethyl | Per2991-50-6 | 1 | NG_L | U | | TRG | | | | 20171116 | | 0.49 | 0.49 | 5.1 | 70 | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluorob | 375-73-5 | 0.5 | NG_L | U | | TRG | | | | 20171116 | | 0.13 | 0.13 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluoro | 355-46-4 | 0.4 | NG_L | U | | TRG | | | | 20171116 | | 0.11 | 0.11 | 5.1 | 70 | 0.4 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | Perfluoroo | 1763-23-1 | 0.5 | NG_L | U | | TRG | | | | 20171116 | | 0.19 | 0.19 | 5.1 | 70 | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C5-PFH | BDO-2217 | 130 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C4-PFH | pBDO-2218 | 130 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C8-PFO | ABDO-2219 | 131 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C9-PFN | ABDO-2221 | 114 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C6-PFD | ABDO-2222 | 129 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C7-PFU | nBDO-2223 | 131 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C2-PFD | oBDO-2112 | 125 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C2-PFT | e BDO-2224 | 117 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | d3-MeFOS | BDO-1838 | 119 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | d5-EtFOS | A BDO-1839 | 118 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C3-PFB | S BDO-2226 | 122 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C3-PFH | x BDO-2227 | 125 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | CR884PB-F | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BLK | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 21:50:00 | CR884PB-F | 1 | 1 | | | 13C8-PFO | S BDO-2228 | 125 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluoroh | 307-24-4 | 91 | PCT_REC | | | TRG | LSA | 137 | | 51 20171116 | | 0.19 | 0.19 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluoro | 375-85-9 | 94 | PCT_REC | | | TRG | LSA | 136 | | 48 20171116 | | 0.16 | 0.16 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluoroo | 335-67-1 | 104 | PCT_REC | | | TRG | LSA | 141 | | 49 20171116 | | 0.18 | 0.18 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluoro | 375-95-1 | 110 | PCT_REC | | | TRG | LSA | 122 | | 58 20171116 | | 0.26 | 0.26 | 5.1 | | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluorod | 335-76-2 | 103 | PCT_REC | | | TRG | LSA | 135 | | 59 20171116 | | 0.16 | 0.16 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluorou | 2058-94-8 | 93 | PCT_REC | | | TRG | LSA | 134 | | 64 20171116 | | 0.29 | 0.29 | 5.1 | | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluoro | 307-55-1 | 99 | PCT_REC | | | TRG | LSA | 131 | | 75 20171116 | | 0.18 | 0.18 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluorot | 72629-94-8 | 107 | PCT_REC | | | TRG | LSA | 148 | | 42 20171116 | | 0.15 | 0.15 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluorot | 376-06-7 | 107 | PCT_REC | | | TRG | LSA | 158 | | 42 20171116 | | 0.25 | 0.25 | 5.1 | | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | N-Methyl | FZ355-31-9 | 89 | PCT_REC | | | TRG | LSA | 131 | | 51 20171116 | | 0.56 | 0.56 | 5.1 | | 2 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | N-Ethyl | Per2991-50-6 | 123 | PCT_REC | | | TRG | LSA | 131 | | 51 20171116 | | 0.49 | 0.49 | 5.1 | | 1 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluorob | 375-73-5 | 95 | PCT_REC | | | TRG | LSA | 134 | | 56 20171116 | | 0.13 | 0.13 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluoro | 355-46-4 | 108 | PCT_REC | | | TRG | LSA | 128 | | 52 20171116 | | 0.11 | 0.11 | 5.1 | | 0.4 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | Perfluoroo | 1763-23-1 | 86 | PCT_REC | | | TRG | LSA | 144 | | 40 20171116 | | 0.19 | 0.19 | 5.1 | | 0.5 | 5 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C5-PFH | x BDO-2217 | 118 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C4-PFH | pBDO-2218 | 115 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C8-PFO | ABDO-2219 | 104 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C9-PFN | ABDO-2221 | 98 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C6-PFD | ABDO-2222 | 109 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C7-PFU | nBDO-2223 | 122 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C2-PFD | oBDO-2112 | 116 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C2-PFT | e BDO-2224 | 111 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | d3-MeFOS | BDO-1838 | 111 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | d5-EtFOS | A BDO-1839 | 98 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C3-PFB | S BDO-2226 | 128 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C3-PFH | x BDO-2227 | 99 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | C-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | BS | W | 4 | 20180928 | 20180928 | | | 20180928 | 14:48:00 | 20181005 | 22:00:52 | C8S8SLCS- | 1 | 1 | | | 13C8-PFO | S BDO-2228 | 118 | PCT_REC | | | SURR | SLSP | 150 | | 50 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 23:06:04 | J8285-FS | 25 | 1 | | | Perfluoroh | 307-24-4 | 799.96 | NG_L | D | | TRG | | | | 20171116 | | 4.4 | 4.4 | 5.1 | 70 | 11.57 | 115.74 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 22:55:11 | J8285-FS | 10 | 1 | | | Perfluoro | 375-85-9 | 67.65 | NG_L | D | | TRG | | | | 20171116 | | 1.48 | 1.48 | 5.1 | 70 | 4.63 | 46.3 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 22:55:11 | J8285-FS | 10 | 1 | | | Perfluoroo | 335-67-1 | 292.58 | NG_L | D | | TRG | | | | 20171116 | | 1.67 | 1.67 | 5.1 | 70 | 4.63 | 46.3 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 22:44:19 | J8285-FS | 1 | 1 | | | Perfluoro | 375-95-1 | 3.27 | NG_L | J | | TRG | | | | 20171116 | | 0.24 | 0.24 | 5.1 | 70 | 0.93 | 4.63 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 22:44:19 | J8285-FS | 1 | 1 | | | Perfluorod | 335-76-2 | 0.43 | NG_L | J | | TRG | | | | 20171116 | | 0.15 | 0.15 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 22:44:19 | J8285-FS | 1 | 1 | | | Perfluorou | 2058-94-8 | 0.93 | NG_L | U | | TRG | | | | 20171116 | | 0.27 | 0.27 | 5.1 | 70 | 0.93 | 4.63 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 22:44:19 | J8285-FS | 1 | 1 | | | Perfluoro | 307-55-1 | 0.46 | NG_L | U | | TRG | | | | 20171116 | | 0.17 | 0.17 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | | | | | | | | | | | | |
| N6247016I | 4164 | | POINT_MU | VC-S94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181005 | 22:44:19 | J8285-FS

| Contract_I | DO_CTO_N | Phase | Installatior | Sample_Nu | CH2M_Coc | Analysis_G | Analytical_ | PRC_Code | Lab_Code | Lab_Name | Leachate_I | SAMPLE_B | Extraction_ | Result_Typ | Lab_QC_ty | SAMPLE_N | QC_Level | DateTime_ | Date_Rece | Leachate_I | Leachate_ | Extraction_ | Extraction_ | Analysis_D | Analysis_T | Lab_Sampl | Dilution | Run_Numt | PERCENT_I | PERCENT_I | Chem_Nan | Analyte_ID | Analyte_Vi | Original_A | Result_Uni | Lab_Qualif | Validator_ | GC_Colum | Analysis_R | Result_Nar | QC_Contrc | QC_Accura | QC_Accura | Control_Lir | QC_Narrat | MDL | | Detection_Q | SQM_Vers | DL | | LOD | | LOQ | | SDG | Analysis_B | Validator_ | Val_Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | Perfluorot | 376-06-7 | | 0.91 | NG_L | U | | TRG | | | | | 20171116 | | 0.23 | 0.23 | 5.1 | | 70 | 0.91 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | N-Methyl | F2355-31-9 | | 1.82 | NG_L | U | | TRG | | | | | 20171116 | | 0.51 | 0.51 | 5.1 | | 70 | 1.82 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 0.91 | NG_L | U | | TRG | | | | | 20171116 | | 0.45 | 0.45 | 5.1 | | 70 | 0.91 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:16:26 | J8287-FS | 5 | 1 | | | Perfluorob | 375-73-5 | | 76.52 | NG_L | D | | TRG | | | | | 20171116 | | 0.59 | 0.59 | 5.1 | | 70 | 2.27 | | 22.73 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:38:08 | J8287-FS | 62.5 | 1 | | | Perfluoroh | 355-46-4 | | 1115.91 | NG_L | D | | TRG | | | | | 20171116 | | 6.25 | 6.25 | 5.1 | | 70 | 22.73 | | 284.09 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181010 | 20:41:32 | J8287-FS | 312.5 | 1 | | | Perfluoroo | 1763-23-1 | | 4655.82 | NG_L | D | | TRG | | | | | 20171116 | | 53.98 | 53.98 | 5.1 | | 70 | 142.05 | | 1420.45 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:38:08 | J8287-FS | 62.5 | 1 | | | 13C5-PFH | x BDO-2217 | | 127 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | 13C4-PFH | p BDO-2218 | | 113 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:16:26 | J8287-FS | 5 | 1 | | | 13C8-PFO | A BDO-2219 | | 109 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181010 | 20:41:32 | J8287-FS | 312.5 | 1 | | | 13C9-PFN | A BDO-2221 | | 110 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | 13C6-PFD | A BDO-2222 | | 119 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | 13C7-PFU | n BDO-2223 | | 130 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | 13C2-PFD | o BDO-2112 | | 119 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:05:34 | J8287-FS | 1 | 1 | | | 13C2-PFT | e BDO-2224 | | 93 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181010 | 20:41:32 | J8287-FS | 312.5 | 1 | | | d3-MeFOS | BDO-1838 | | 108 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181010 | 20:41:32 | J8287-FS | 312.5 | 1 | | | d5-EtFOS | A BDO-1839 | | 130 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181010 | 20:41:32 | J8287-FS | 312.5 | 1 | | | 13C3-PFB | S BDO-2226 | | 140 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 01:38:08 | J8287-FS | 62.5 | 1 | | | 13C3-PFH | x BDO-2227 | | 125 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181010 | 20:41:32 | J8287-FS | 312.5 | 1 | | | 13C8-PFO | S BDO-2228 | | 136 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluoroh | 307-24-4 | | 18.52 | NG_L | | | TRG | | | | | 20171116 | | 0.17 | 0.17 | 5.1 | | 70 | 0.45 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluoroh | 375-85-9 | | 9.1 | NG_L | | | TRG | | | | | 20171116 | | 0.15 | 0.15 | 5.1 | | 70 | 0.45 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:54:13 | J8288-FS | 5 | 1 | | | Perfluoroo | 335-67-1 | | 67.75 | NG_L | D | | TRG | | | | | 20171116 | | 0.82 | 0.82 | 5.1 | | 70 | 2.27 | | 22.73 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluoron | 375-95-1 | | 0.81 | NG_L | J | | TRG | | | | | 20171116 | | 0.24 | 0.24 | 5.1 | | 70 | 0.91 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluorod | 335-76-2 | | 0.45 | NG_L | U | | TRG | | | | | 20171116 | | 0.15 | 0.15 | 5.1 | | 70 | 0.45 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluorou | 2058-94-8 | | 0.91 | NG_L | U | | TRG | | | | | 20171116 | | 0.26 | 0.26 | 5.1 | | 70 | 0.91 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluorod | 307-55-1 | | 0.45 | NG_L | U | | TRG | | | | | 20171116 | | 0.16 | 0.16 | 5.1 | | 70 | 0.45 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluorot | 72629-94-8 | | 0.45 | NG_L | U | | TRG | | | | | 20171116 | | 0.14 | 0.14 | 5.1 | | 70 | 0.45 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluorot | 376-06-7 | | 0.91 | NG_L | U | | TRG | | | | | 20171116 | | 0.23 | 0.23 | 5.1 | | 70 | 0.91 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | N-Methyl | F2355-31-9 | | 1.82 | NG_L | U | | TRG | | | | | 20171116 | | 0.51 | 0.51 | 5.1 | | 70 | 1.82 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 0.91 | NG_L | U | | TRG | | | | | 20171116 | | 0.45 | 0.45 | 5.1 | | 70 | 0.91 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluorob | 375-73-5 | | 9.41 | NG_L | | | TRG | | | | | 20171116 | | 0.12 | 0.12 | 5.1 | | 70 | 0.45 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:54:13 | J8288-FS | 5 | 1 | | | Perfluoroh | 355-46-4 | | 64.3 | NG_L | D | | TRG | | | | | 20171116 | | 0.5 | 0.5 | 5.1 | | 70 | 1.82 | | 22.73 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | Perfluoroo | 1763-23-1 | | 65.69 | NG_L | | | TRG | | | | | 20171116 | | 0.17 | 0.17 | 5.1 | | 70 | 0.45 | | 4.55 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C5-PFH | x BDO-2217 | | 125 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C4-PFH | p BDO-2218 | | 145 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:54:13 | J8288-FS | 5 | 1 | | | 13C8-PFO | A BDO-2219 | | 124 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C9-PFN | A BDO-2221 | | 110 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C6-PFD | A BDO-2222 | | 115 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C7-PFU | n BDO-2223 | | 128 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C2-PFD | o BDO-2112 | | 116 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C2-PFT | e BDO-2224 | | 103 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:54:13 | J8288-FS | 5 | 1 | | | d3-MeFOS | BDO-1838 | | 96 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:54:13 | J8288-FS | 5 | 1 | | | d5-EtFOS | A BDO-1839 | | 115 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C3-PFB | S BDO-2226 | | 123 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:54:13 | J8288-FS | 5 | 1 | | | 13C3-PFH | x BDO-2227 | | 122 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 02:43:21 | J8288-FS | 1 | 1 | | | 13C8-PFO | S BDO-2228 | | 138 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluoroh | 307-24-4 | | 39.95 | NG_L | | | TRG | | | | | 20171116 | | 0.17 | 0.17 | 5.1 | | 70 | 0.44 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluoroh | 375-85-9 | | 26.25 | NG_L | | | TRG | | | | | 20171116 | | 0.14 | 0.14 | 5.1 | | 70 | 0.44 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:26:01 | J8289-FS | 25 | 1 | | | Perfluoroo | 335-67-1 | | 835.09 | NG_L | D | | TRG | | | | | 20171116 | | 3.95 | 3.95 | 5.1 | | 70 | 10.96 | | 109.65 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluoron | 375-95-1 | | 1.08 | NG_L | J | | TRG | | | | | 20171116 | | 0.23 | 0.23 | 5.1 | | 70 | 0.88 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluorod | 335-76-2 | | 0.44 | NG_L | U | | TRG | | | | | 20171116 | | 0.14 | 0.14 | 5.1 | | 70 | 0.44 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluorou | 2058-94-8 | | 0.88 | NG_L | U | | TRG | | | | | 20171116 | | 0.25 | 0.25 | 5.1 | | 70 | 0.88 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluorod | 307-55-1 | | 0.44 | NG_L | U | | TRG | | | | | 20171116 | | 0.16 | 0.16 | 5.1 | | 70 | 0.44 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluorot | 72629-94-8 | | 0.44 | NG_L | U | | TRG | | | | | 20171116 | | 0.13 | 0.13 | 5.1 | | 70 | 0.44 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluorot | 376-06-7 | | 0.88 | NG_L | U | | TRG | | | | | 20171116 | | 0.22 | 0.22 | 5.1 | | 70 | 0.88 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | N-Methyl | F2355-31-9 | | 1.75 | NG_L | U | | TRG | | | | | 20171116 | | 0.49 | 0.49 | 5.1 | | 70 | 1.75 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 0.88 | NG_L | U | | TRG | | | | | 20171116 | | 0.43 | 0.43 | 5.1 | | 70 | 0.88 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluorob | 375-73-5 | | 8.07 | NG_L | | | TRG | | | | | 20171116 | | 0.11 | 0.11 | 5.1 | | 70 | 0.44 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluoroh | 355-46-4 | | 46.1 | NG_L | D | | TRG | | | | | 20171116 | | 0.48 | 0.48 | 5.1 | | 70 | 1.75 | | 21.93 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | Perfluoroo | 1763-23-1 | | 51.45 | NG_L | | | TRG | | | | | 20171116 | | 0.17 | 0.17 | 5.1 | | 70 | 0.44 | | 4.39 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | 13C5-PFH | x BDO-2217 | | 65 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:15:08 | J8289-FS | 1 | 1 | | | 13C4-PFH | p BDO-2218 | | 77 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 07:26:01 | J8289-FS | 25 | 1 | | | 13C8-PFO | A BDO-2219 | | 128 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-CS94-D | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W |

| Contract_I | DO_CTO_N | Phase | Installatior | Sample_Ni | CH2M_Cor | Analysis_G | Analytical_PRC_Code | Lab_Code | Lab_Name | Leachate_I | SAMPLE_B | Extraction_ | Result_Typ | Lab_QC_ty | SAMPLE_N | QC_Level | DateTime_ | Date_Rece | Leachate_I | Leachate_ | Extraction_ | Extraction_ | Analysis_D | Analysis_T | Lab_Sampl | Dilution | Run_Numt | PERCENT_I | PERCENT_I | Chem_Nan | Analyte_ID | Analyte_Vi | Original_A | Result_Uni | Lab_Qualif | Validator_ | GC_Colum | Analysis_R | Result_Nat | QC_Contrc | QC_Accura | QC_Accura | Control_Lir | QC_Narrat | MDL | Detection_Q | SM_Vers | DL | LOD | LOQ | SDG | Analysis_B | Validator_ | Val_Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N6247016 | 4164 | | POINT_MU | VC-SO-FB0 | NONS | SVOA | 537_MOD | ORG | BMSL_NOF | BATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180921 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:11:44 | J8308-FS | 1 | 1 | | | 13C8-PFO | A | BDO-2219 | 113 | PCT_REC | | | | SURR | SLSP | 150 | 50 | 20171116 | | | | | 5.1 | | | 18-0580 | DP-18-0285 | | | | |

| Contract_I | DO_CTO_N | Phase | Installatior | Sample_Nu | CH2M_Cor | Analysis_G | Analytical_ | PRC_Code | Lab_Code | Lab_Name | Leachate_I | SAMPLE_B | Extraction_ | Result_Typ | Lab_QC_ty | SAMPLE_N | QC_Level | DateTime_ | Date_Rece | Leachate_I | Leachate_ | Extraction_ | Extraction_ | Analysis_D | Analysis_T | Lab_Sampl | Dilution | Run_Numb | PERCENT_I | PERCENT_I | Chem_Nan | Analyte_ID | Analyte_Va | Original_A | Result_Uni | Lab_Qualif | Validator_ | QC_Colum | Analysis_R | Result_Nat | QC_Contro | QC_Accura | QC_Accura | Control_Lir | QC_Narrat | MDL | Detection_Q | SM_Vers | DL | LOD | LOQ | SDG | Analysis_B | Validator_ | Val_Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 07:04:15 | J8321-FS | 125 | 1 | | | 13C3-PFBS | BDO-2226 | | 146 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 21:14:07 | J8321-FS | 625 | 1 | | | 13C3-PFHx | BDO-2227 | | 123 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 06:53:23 | J8321-FS | 50 | 1 | | | 13C8-PFOS | BDO-2228 | | 144 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | Perfluoroh | 307-24-4 | | 3158327 | NG_L | D | | TRG | | | | 20171116 | | 98958.34 | 98958.34 | 5.1 | 70 | 260416.7 | 2604167 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 12:08:47 | J8322-FS | 416.67 | 1 | | | Perfluoroh | 375-85-9 | | 490433.6 | NG_L | D | | TRG | | | | 20171116 | | 8333.34 | 8333.34 | 5.1 | 70 | 26041.69 | 260416.9 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 12:08:47 | J8322-FS | 416.67 | 1 | | | Perfluoroo | 335-67-1 | | 1071530 | NG_L | D | | TRG | | | | 20171116 | | 9375.01 | 9375.01 | 5.1 | 70 | 26041.69 | 260416.9 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | Perfluoro | 375-95-1 | | 8063.63 | NG_L | | | TRG | | | | 20171116 | | 32.5 | 32.5 | 5.1 | 70 | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | Perfluorod | 335-76-2 | | 546.37 | NG_L | J | | TRG | | | | 20171116 | | 20 | 20 | 5.1 | 70 | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | Perfluorou | 2058-94-8 | | 125 | NG_L | U | | TRG | | | | 20171116 | | 36.25 | 36.25 | 5.1 | 70 | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | Perfluorod | 307-55-1 | | 62.5 | NG_L | U | | TRG | | | | 20171116 | | 22.5 | 22.5 | 5.1 | 70 | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | Perfluorot | 72629-94-8 | | 62.5 | NG_L | U | | TRG | | | | 20171116 | | 18.75 | 18.75 | 5.1 | 70 | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | Perfluorot | 376-06-7 | | 125 | NG_L | U | | TRG | | | | 20171116 | | 31.25 | 31.25 | 5.1 | 70 | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | N-Methyl | FZ355-31-9 | | 250 | NG_L | U | | TRG | | | | 20171116 | | 70 | 70 | 5.1 | 70 | 250 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 125 | NG_L | U | | TRG | | | | 20171116 | | 61.25 | 61.25 | 5.1 | 70 | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 12:08:47 | J8322-FS | 416.67 | 1 | | | Perfluorob | 375-73-5 | | 2034520 | NG_L | D | | TRG | | | | 20171116 | | 6770.84 | 6770.84 | 5.1 | 70 | 26041.69 | 260416.9 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | Perfluoroh | 355-46-4 | | 12586869 | NG_L | D | | TRG | | | | 20171116 | | 57291.67 | 57291.67 | 5.1 | 70 | 208333.4 | 2604167 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | Perfluoroo | 1763-23-1 | | 13407957 | NG_L | D | | TRG | | | | 20171116 | | 98958.34 | 98958.34 | 5.1 | 70 | 260416.7 | 2604167 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | 13C5-PFHx | BDO-2217 | | 124 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 12:08:47 | J8322-FS | 416.67 | 1 | | | 13C4-PFHp | BDO-2218 | | 116 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 12:08:47 | J8322-FS | 416.67 | 1 | | | 13C8-PFOA | BDO-2219 | | 117 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | 13C9-PFNA | BDO-2221 | | 119 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | 13C6-PFDA | BDO-2222 | | 117 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | 13C7-PFUn | BDO-2223 | | 129 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | 13C2-PFDo | BDO-2112 | | 117 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181006 | 11:36:09 | J8322-FS | 1 | 1 | | | 13C2-PFTe | BDO-2224 | | 106 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | d3-MeFOS | BDO-1838 | | 113 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | d5-EtFOSA | BDO-1839 | | 121 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | 13C3-PFBS | BDO-2226 | | 109 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | 13C3-PFHx | BDO-2227 | | 120 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 16:50:00 | 20181010 | 22:41:02 | J8322-FS | 4166.67 | 1 | | | 13C8-PFOS | BDO-2228 | | 125 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluoroh | 307-24-4 | | 0.46 | NG_L | U | | TRG | | | | 20171116 | | 0.18 | 0.18 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluoroh | 375-85-9 | | 0.46 | NG_L | U | | TRG | | | | 20171116 | | 0.15 | 0.15 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluoroo | 335-67-1 | | 0.85 | NG_L | J | | TRG | | | | 20171116 | | 0.17 | 0.17 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluoro | 375-95-1 | | 0.93 | NG_L | U | | TRG | | | | 20171116 | | 0.24 | 0.24 | 5.1 | 70 | 0.93 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluorod | 335-76-2 | | 0.46 | NG_L | U | | TRG | | | | 20171116 | | 0.15 | 0.15 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluorou | 2058-94-8 | | 0.93 | NG_L | U | | TRG | | | | 20171116 | | 0.27 | 0.27 | 5.1 | 70 | 0.93 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluorod | 307-55-1 | | 0.18 | NG_L | J | | TRG | | | | 20171116 | | 0.17 | 0.17 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluorot | 72629-94-8 | | 0.24 | NG_L | J | | TRG | | | | 20171116 | | 0.14 | 0.14 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluorot | 376-06-7 | | 0.25 | NG_L | J | | TRG | | | | 20171116 | | 0.23 | 0.23 | 5.1 | 70 | 0.93 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | N-Methyl | FZ355-31-9 | | 1.85 | NG_L | U | | TRG | | | | 20171116 | | 0.52 | 0.52 | 5.1 | 70 | 1.85 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 0.93 | NG_L | U | | TRG | | | | 20171116 | | 0.45 | 0.45 | 5.1 | 70 | 0.93 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluorob | 375-73-5 | | 0.46 | NG_L | U | | TRG | | | | 20171116 | | 0.12 | 0.12 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluoroh | 355-46-4 | | 0.37 | NG_L | U | | TRG | | | | 20171116 | | 0.1 | 0.1 | 5.1 | 70 | 0.37 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | Perfluoroo | 1763-23-1 | | 0.46 | NG_L | U | | TRG | | | | 20171116 | | 0.18 | 0.18 | 5.1 | 70 | 0.46 | 4.63 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C5-PFHx | BDO-2217 | | 111 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C4-PFHp | BDO-2218 | | 110 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C8-PFOA | BDO-2219 | | 106 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C9-PFNA | BDO-2221 | | 106 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C6-PFDA | BDO-2222 | | 113 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C7-PFUn | BDO-2223 | | 116 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C2-PFDo | BDO-2112 | | 106 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C2-PFTe | BDO-2224 | | 107 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | d3-MeFOS | BDO-1838 | | 100 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | d5-EtFOSA | BDO-1839 | | 117 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C3-PFBS | BDO-2226 | | 123 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C3-PFHx | BDO-2227 | | 129 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-FBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:33:27 | J8323-FS | 1 | 1 | | | 13C8-PFOS | BDO-2228 | | 138 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-EBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:22:35 | J8324-FS | 1 | 1 | | | Perfluoroh | 307-24-4 | | 0.6 | NG_L | U | | TRG | | | | 20171116 | | 0.23 | 0.23 | 5.1 | 70 | 0.6 | 5.95 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-EBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:22:35 | J8324-FS | 1 | 1 | | | Perfluoroh | 375-85-9 | | 0.6 | NG_L | U | | TRG | | | | 20171116 | | 0.19 | 0.19 | 5.1 | 70 | 0.6 | 5.95 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-EBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:22:35 | J8324-FS | 1 | 1 | | | Perfluoroo | 335-67-1 | | 1.51 | NG_L | J | | TRG | | | | 20171116 | | 0.21 | 0.21 | 5.1 | 70 | 0.6 | 5.95 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-EBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:22:35 | J8324-FS | 1 | 1 | | | Perfluoro | 375-95-1 | | 1.19 | NG_L | U | | TRG | | | | 20171116 | | 0.31 | 0.31 | 5.1 | 70 | 1.19 | 5.95 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-EBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:22:35 | J8324-FS | 1 | 1 | | | Perfluorod | 335-76-2 | | 0.6 | NG_L | U | | TRG | | | | 20171116 | | 0.19 | 0.19 | 5.1 | 70 | 0.6 | 5.95 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-EBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:22:35 | J8324-FS | 1 | 1 | | | Perfluorou | 2058-94-8 | | 1.19 | NG_L | U | | TRG | | | | 20171116 | | 0.35 | 0.35 | 5.1 | 70 | 1.19 | 5.95 | 18-0580 | DP-18-0285 | | |
| N6247016( | 4164 | | POINT_MU | VC-AQ-EBC | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:48:00 | 20181005 | 22:22:35 | J8324-FS | 1 | 1 | | | Perfluorod | 307-55-1 | | 0.6 | NG_L | U | | TRG |

| Contract_I | DO_CTO_N | Phase | Installatior | Sample_Ni | CH2M_Coc | Analysis_G | Analytical_PRC_Code | Lab_Code | Lab_Name | Leachate_I | SAMPLE_B | Extraction_ | Result_Typ | Lab_QC_ty | SAMPLE_N | QC_Level | DateTime_ | Date_Rece | Leachate_I | Leachate_ | Extraction_ | Extraction_ | Analysis_D | Analysis_T | Lab_Sampl | Dilution | Run_Numb | PERCENT_I | PERCENT_I | Chem_Nan | Analyte_ID | Analyte_Vi | Original_A | Result_Uni | Lab_Qualif | Validator_ | GC_Colum | Analysis_R | Result_Nar | QC_Contro | QC_Accura | QC_Accura | Control_Lir | QC_Narrat | MDL | | Detection_Q | SM_Vers | DL | LOD | LOQ | SDG | Analysis_B | Validator_ | Val_Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | Perfluorou | 2058-94-8 | | 2.5 | NG_L | U | | TRG | | | | | 20171116 | | 0.73 | 0.73 | 5.1 | 70 | 2.5 | 12.5 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | Perfluorod | 307-55-1 | | 1.25 | NG_L | U | | TRG | | | | | 20171116 | | 0.45 | 0.45 | 5.1 | 70 | 1.25 | 12.5 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | Perfluorot | 72629-94-8 | | 1.25 | NG_L | U | | TRG | | | | | 20171116 | | 0.38 | 0.38 | 5.1 | 70 | 1.25 | 12.5 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | Perfluorot | 376-06-7 | | 2.5 | NG_L | U | | TRG | | | | | 20171116 | | 0.63 | 0.63 | 5.1 | 70 | 2.5 | 12.5 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | N-Methyl F | 2355-31-9 | | 5 | NG_L | U | | TRG | | | | | 20171116 | | 1.4 | 1.4 | 5.1 | 70 | 5 | 12.5 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 2.5 | NG_L | U | | TRG | | | | | 20171116 | | 1.23 | 1.23 | 5.1 | 70 | 2.5 | 12.5 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:03:51 | J8331-FS | 100 | 1 | | | Perfluorob | 375-73-5 | | 9828.61 | NG_L | D | | TRG | | | | | 20171116 | | 32.5 | 32.5 | 5.1 | 70 | 125 | 1250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:14:43 | J8331-FS | 250 | 1 | | | Perfluoro | 355-46-4 | | 40736.06 | NG_L | D | | TRG | | | | | 20171116 | | 68.75 | 68.75 | 5.1 | 70 | 250 | 3125 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:03:51 | J8331-FS | 100 | 1 | | | Perfluorоо | 1763-23-1 | | 1921.73 | NG_L | D | | TRG | | | | | 20171116 | | 47.5 | 47.5 | 5.1 | 70 | 125 | 1250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:03:51 | J8331-FS | 100 | 1 | | | 13C5-PFHx | BDO-2217 | | 124 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:03:51 | J8331-FS | 100 | 1 | | | 13C4-PFHp | BDO-2218 | | 123 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:03:51 | J8331-FS | 100 | 1 | | | 13C8-PFOA | BDO-2219 | | 119 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | 13C9-PFNA | BDO-2221 | | 80 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | 13C6-PFDA | BDO-2222 | | 110 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | 13C7-PFUn | BDO-2223 | | 114 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | 13C2-PFDo | BDO-2112 | | 104 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | 13C2-PFTe | BDO-2224 | | 105 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | d3-MeFOS | BDO-1838 | | 90 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 08:42:06 | J8331-FS | 1 | 1 | | | d5-EtFOSA | BDO-1839 | | 123 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:03:51 | J8331-FS | 100 | 1 | | | 13C3-PFBS | BDO-2226 | | 134 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:14:43 | J8331-FS | 250 | 1 | | | 13C3-PFHx | BDO-2227 | | 113 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | REG | W | 4 | 20180920 | 20180925 | | | 20180928 | 14:51:00 | 20181006 | 09:03:51 | J8331-FS | 100 | 1 | | | 13C8-PFOS | BDO-2228 | | 121 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:20:00 | J8325MS-F | 125 | 1 | | | Perfluorob | 307-24-4 | | 0 | PCT_REC | N | | TRG | LSA | 137 | 51 | 20171116 | | 2968.75 | 2968.75 | 5.1 | | 7812.5 | 78125 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:58:14 | J8325MS-F | 10 | 1 | | | Perfluorob | 375-85-9 | | 152 | PCT_REC | N | | TRG | LSA | 136 | 48 | 20171116 | | 200 | 200 | 5.1 | | 625 | 6250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:09:08 | J8325MS-F | 50 | 1 | | | Perfluorоо | 335-67-1 | | 270 | PCT_REC | N | | TRG | LSA | 141 | 49 | 20171116 | | 1125 | 1125 | 5.1 | | 3125 | 31250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | Perfluorou | 375-95-1 | | 107 | PCT_REC | | | TRG | LSA | 122 | 58 | 20171116 | | 32.5 | 32.5 | 5.1 | | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | Perfluorod | 335-76-2 | | 95 | PCT_REC | | | TRG | LSA | 135 | 59 | 20171116 | | 20 | 20 | 5.1 | | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | Perfluorou | 2058-94-8 | | 92 | PCT_REC | | | TRG | LSA | 134 | 64 | 20171116 | | 36.25 | 36.25 | 5.1 | | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | Perfluorod | 307-55-1 | | 89 | PCT_REC | | | TRG | LSA | 131 | 75 | 20171116 | | 22.5 | 22.5 | 5.1 | | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | Perfluorot | 72629-94-8 | | 93 | PCT_REC | | | TRG | LSA | 148 | 42 | 20171116 | | 18.75 | 18.75 | 5.1 | | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | Perfluorot | 376-06-7 | | 92 | PCT_REC | | | TRG | LSA | 158 | 42 | 20171116 | | 31.25 | 31.25 | 5.1 | | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | N-Methyl F | 2355-31-9 | | 86 | PCT_REC | | | TRG | LSA | 146 | 50 | 20171116 | | 700 | 700 | 5.1 | | 2500 | 6250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:58:14 | J8325MS-F | 10 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 88 | PCT_REC | | | TRG | LSA | 131 | 51 | 20171116 | | 612.5 | 612.5 | 5.1 | | 1250 | 6250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:20:00 | J8325MS-F | 125 | 1 | | | Perfluorob | 375-73-5 | | 691 | PCT_REC | N | | TRG | LSA | 134 | 56 | 20171116 | | 2031.25 | 2031.25 | 5.1 | | 7812.5 | 78125 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181010 | 21:35:49 | J8325MS-F | 625 | 1 | | | Perfluoro | 355-46-4 | | 1669 | PCT_REC | N | | TRG | LSA | 128 | 52 | 20171116 | | 8593.75 | 8593.75 | 5.1 | | 31250 | 390625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:20:00 | J8325MS-F | 125 | 1 | | | Perfluorоо | 1763-23-1 | | 0 | PCT_REC | N | | TRG | LSA | 144 | 40 | 20171116 | | 2968.75 | 2968.75 | 5.1 | | 7812.5 | 78125 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:20:00 | J8325MS-F | 125 | 1 | | | 13C5-PFHx | BDO-2217 | | 122 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:58:14 | J8325MS-F | 10 | 1 | | | 13C4-PFHp | BDO-2218 | | 119 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:09:08 | J8325MS-F | 50 | 1 | | | 13C8-PFOA | BDO-2219 | | 118 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181010 | 21:35:49 | J8325MS-F | 625 | 1 | | | 13C9-PFNA | BDO-2221 | | 106 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | 13C6-PFDA | BDO-2222 | | 106 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | 13C7-PFUn | BDO-2223 | | 108 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | 13C2-PFDo | BDO-2112 | | 117 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:47:21 | J8325MS-F | 1 | 1 | | | 13C2-PFTe | BDO-2224 | | 112 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181010 | 21:24:58 | J8325MS-F | 10 | 1 | | | d3-MeFOS | BDO-1838 | | 127 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 09:58:14 | J8325MS-F | 10 | 1 | | | d5-EtFOSA | BDO-1839 | | 148 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:20:00 | J8325MS-F | 125 | 1 | | | 13C3-PFBS | BDO-2226 | | 138 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181010 | 21:35:49 | J8325MS-F | 625 | 1 | | | 13C3-PFHx | BDO-2227 | | 122 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MS | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 11:03:32 | J8326MSD | 125 | 1 | | | Perfluorob | 307-24-4 | | 0 | PCT_REC | N | | TRG | LSA | 137 | 51 | 20171116 | | 2968.75 | 2968.75 | 5.1 | | 7812.5 | 78125 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181010 | 21:46:43 | J8326MSD | 10 | 1 | | | Perfluorob | 375-85-9 | | 86 | PCT_REC | | | TRG | LSA | 136 | 48 | 20171116 | | 200 | 200 | 5.1 | | 625 | 6250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:52:40 | J8326MSD | 50 | 1 | | | Perfluorоо | 335-67-1 | | 231 | PCT_REC | N | | TRG | LSA | 141 | 49 | 20171116 | | 1125 | 1125 | 5.1 | | 3125 | 31250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | Perfluorou | 375-95-1 | | 97 | PCT_REC | | | TRG | LSA | 122 | 58 | 20171116 | | 32.5 | 32.5 | 5.1 | | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | Perfluorod | 335-76-2 | | 97 | PCT_REC | | | TRG | LSA | 135 | 59 | 20171116 | | 20 | 20 | 5.1 | | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | Perfluorou | 2058-94-8 | | 93 | PCT_REC | | | TRG | LSA | 134 | 64 | 20171116 | | 36.25 | 36.25 | 5.1 | | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | Perfluorod | 307-55-1 | | 87 | PCT_REC | | | TRG | LSA | 131 | 75 | 20171116 | | 22.5 | 22.5 | 5.1 | | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | Perfluorot | 72629-94-8 | | 99 | PCT_REC | | | TRG | LSA | 148 | 42 | 20171116 | | 18.75 | 18.75 | 5.1 | | 62.5 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | Perfluorot | 376-06-7 | | 94 | PCT_REC | | | TRG | LSA | 158 | 42 | 20171116 | | 31.25 | 31.25 | 5.1 | | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | N-Methyl F | 2355-31-9 | | 89 | PCT_REC | | | TRG | LSA | 146 | 50 | 20171116 | | 700 | 700 | 5.1 | | 2500 | 6250 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 10:30:53 | J8326MSD | 1 | 1 | | | N-Ethyl Pe | r2991-50-6 | | 109 | PCT_REC | | | TRG | LSA | 131 | 51 | 20171116 | | 61.25 | 61.25 | 5.1 | | 125 | 625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 11:03:32 | J8326MSD | 125 | 1 | | | Perfluorob | 375-73-5 | | 768 | PCT_REC | N | | TRG | LSA | 134 | 56 | 20171116 | | 2031.25 | 2031.25 | 5.1 | | 7812.5 | 78125 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181010 | 21:57:34 | J8326MSD | 625 | 1 | | | Perfluorob | 355-46-4 | | 3278 | PCT_REC | N | | TRG | LSA | 128 | 52 | 20171116 | | 8593.75 | 8593.75 | 5.1 | | 31250 | 390625 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | 000 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 11:03:32 | J8326MSD | 125 | 1 | | | Perfluorоо | 1763-23-1 | | 0 | PCT_REC | N | | TRG | LSA | 144 | 40 | 20171116 | | 2968.75 | 2968.75 | 5.1 | | 7812.5 | 78125 | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181006 | 11:03:32 | J8326MSD | 125 | 1 | | | 13C5-PFHx | BDO-2217 | | 127 | PCT_REC | | | SURR | SLSP | 150 | 50 | 20171116 | | | | 5.1 | | | | 18-0580 | DP-18-0285 | | |
| N6247016I | 4164 | | POINT_MU | VC-PM323 | NONS | SVOA | 537_MOD | ORG | BMSL_NO | FBATTELLE, | NULL | N | METHOD | DL1 | MSD | W | 4 | 20180928 | 20180928 | | | 20180928 | 16:50:00 | 20181010 | 21:46:43 | J8326MSD |

ENVIRONMENTAL
Data Services, Inc.

# DATA VALIDATION SUMMARY REPORT
# NAVAL BASE VENTURA COUNTY, CALIFORNIA

Client: CH2M HILL, Inc., Corvallis, Oregon
SDG: 18-0580
Laboratory: Battelle Norwell Operations, Norwell, Massachusetts
Site: Naval Base Ventura County, CTO-4164, California
Date: January 11, 2019

| PFCs | | | |
|---|---|---|---|
| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
| 1 | VC-CS94-DW01-0918 | J8285-FS | Water |
| 2 | VC-CS94-DW01P-0918 | J8286-FS | Water |
| 3 | VC-CS94-DW02-0918 | J8287-FS | Water |
| 4 | VC-CS94-DW03-0918 | J8288-FS | Water |
| 5 | VC-CS94-DW04-0918 | J8289-FS | Water |
| 6 | VC-CS94-DW05-0918 | J8290-FS | Water |
| 7 | VC-SO-FB04-092118 | J8308-FS | Water |
| 8 | VC-SO-EB04-092118 | J8309-FS | Water |
| 9 | VC-PM323-324-DW01-0918 | J8319-FS | Water |
| 10 | VC-PM323-324-DW01P-0918 | J8320-FS | Water |
| 11 | VC-PM323-324-DW02-0918 | J8321-FS | Water |
| 11MS | VC-PM323-324-DW02-0918MS | J8325-FSMS | Water |
| 11MSD | VC-PM323-324-DW02-0918MSD | J8326-FSMSD | Water |
| 12 | VC-PM323-324-DW03-0918 | J8322-FS | Water |
| 13 | VC-AQ-FB03-092018 | J8323-FS | Water |
| 14 | VC-AQ-EB03-092018 | J8324-FS | Water |
| 15 | VC-PM323-DW02-0918 | J8330-FS | Water |
| 16 | VC-PM323-DW02P-0918 | J8331-FS | Water |
| 17 | VC-PM324-DW02-0918 | J8337-FS | Water |

A full data validation was performed on the analytical data for thirteen water samples, two aqueous field blank samples, and two aqueous equipment blank samples collected on September 20-21, 2018 by CH2M HILL at the Naval Base Ventura County site in California. The samples were analyzed under the Battelle SOP Method for "Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)".

Specific method references are as follows:

| *Analysis* | *Method References* |
|---|---|
| PFCs | SOP 5-369 |

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the DoD Quality Systems Manual for Environmental Laboratories, Version 5.1, February 2018, the Final Sampling and Analysis Plan Basewide Preliminary Assessments/Site

Inspections of Per- and Polyfluoroalkyl Substances, August 2018, and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- 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
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

## Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes 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.

## Perfluorinated Compounds (PFCs)

## Data Completeness, Case Narrative & Custody Documentation

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

## Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

## 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 |
|---|---|---|---|---|
| CR884PB-FS | PFOA | 0.90 | U | 7-8, 13-14 |

## Field QC Blank

- Field QC samples are summarized below.

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| VC-AQ-FB03-092018 | PFDoA | 0.18 | None | All Associated ND |
| | PFTrDA | 0.24 | | |
| | PFTeDA | 0.25 | | |
| VC-AQ-EB03-092018 | PFTrDA | 0.19 | None | All Associated ND |
| | PFHxS | 0.32 | None | All Associated >10X |
| | PFOS | 15.13 | None | All Associated >10X |
| VC-SO-FB04-092118 | PFUnA | 0.35 | None | All Associated ND |
| | PFDoA | 0.46 | | |
| | PFTrDA | 0.69 | | |
| | PFTeDA | 0.67 | | |
| VC-SO-EB04-092118 | PFUnA | 0.32 | None | All Associated ND |
| | PFDoA | 0.38 | | |
| | PFTrDA | 0.50 | | |
| | PFTeDA | 0.51 | | |
| | PFOS | 0.37 | None | All Associated >10X |

## Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

| EDS Sample ID | Compound | MS %R/MSD %R/RPD | Qualifier |
|---|---|---|---|
| 11 | Several Compounds | High/Low/High | None - 4X Rule Applies |

## Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

## 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

- All criteria were met.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for several compounds in two field duplicate pairs. These results were qualified as estimated (J).

| Compound | VC-CS94-DW01-0918 ng/L | VC-CS94-DW01P-0918 ng/L | RPD | Qualifier |
|---|---|---|---|---|
| PFHxA | 799.96 | 2900.34 | 114% | J |
| PFHpA | 67.65 | 254.57 | 116% | |
| PFOA | 292.58 | 669.14 | 78% | |
| PFNA | 3.27 | 11.96 | 114% | None - <5X LOQ |
| PFDA | 0.43 | 1.52 | 112% | |
| PFBS | 188.33 | 748.24 | 120% | J |
| PFHxS | 2118.50 | 7650.20 | 113% | |
| PFOS | 8601.45 | 31190.47 | 114% | |

| Compound | VC-PM323-324-DW01-0918 ng/L | VC-PM323-324-DW01P-0918 ng/L | RPD | Qualifier |
|---|---|---|---|---|
| PFHxA | 290462.77 | 240605.51 | 19% | None |
| PFHpA | 37625.38 | 41198.27 | 9% | |
| PFOA | 93975.76 | 84927.54 | 10% | |
| PFNA | 1606.04 | 1691.83 | 5% | |
| PFDA | 62.50U | 93.88 | NC | |
| PFBS | 192484.14 | 161646.30 | 17% | |
| PFHxS | 1829893.56 | 1135491.62 | 47% | J |
| PFOS | 2277022.98 | 1859368.47 | 20% | None |

| Compound | VC-PM323-DW02-0918 ng/L | VC-PM323-DW02P-0918 ng/L | RPD | Qualifier |
|---|---|---|---|---|
| PFHxA | 11894.21 | 11881.64 | 0% | None |
| PFHpA | 1440.83 | 1498.54 | 4% | |
| PFOA | 1817.08 | 1792.14 | 1% | |
| PFNA | 4.53 | 3.89 | 15% | |
| PFBS | 9969.22 | 9828.61 | 1% | |
| PFHxS | 39703.21 | 40736.06 | 3% | |
| PFOS | 1980.13 | 1921.73 | 3% | |

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 1/11/19

Nancy Weaver
Senior Chemist

| Data Qualifier | Definition |
|---|---|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| J | The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| NJ | The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples. |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples. |

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW01-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8285-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/05/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.270 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 799.96 D | J | 4.40 | 11.57 | 115.74 |
| PFHpA | 375-85-9 | 67.65 D | J | 1.48 | 4.63 | 46.30 |
| PFOA | 335-67-1 | 292.58 D | J | 1.67 | 4.63 | 46.30 |
| PFNA | 375-95-1 | 3.27 J | | 0.24 | 0.93 | 4.63 |
| PFDA | 335-76-2 | 0.43 J | | 0.15 | 0.46 | 4.63 |
| PFUnA | 2058-94-8 | 0.93 U | | 0.27 | 0.93 | 4.63 |
| PFDoA | 307-55-1 | 0.46 U | | 0.17 | 0.46 | 4.63 |
| PFTrDA | 72629-94-8 | 0.46 U | | 0.14 | 0.46 | 4.63 |
| PFTeDA | 376-06-7 | 0.93 U | | 0.23 | 0.93 | 4.63 |
| NMeFOSAA | 2355-31-9 | 1.85 U | | 0.52 | 1.85 | 4.63 |
| NEtFOSAA | 2991-50-6 | 0.93 U | | 0.45 | 0.93 | 4.63 |
| PFBS | 375-73-5 | 188.33 D | J | 1.20 | 4.63 | 46.30 |
| PFHxS | 355-46-4 | 2118.50 D | J | 25.46 | 92.59 | 1157.41 |
| PFOS | 1763-23-1 | 8601.45 D | J | 43.98 | 115.74 | 1157.41 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 119 D | | | | |
| 13C4-PFHpA | | 147 D | | | | |
| 13C8-PFOA | | 118 D | | | | |
| 13C9-PFNA | | 110 D | | | | |
| 13C6-PFDA | | 102 | | | | |
| 13C7-PFUnA | | 119 | | | | |
| 13C2-PFDoA | | 115 | | | | |
| 13C2-PFTeDA | | 99 | | | | |
| d3-MeFOSAA | | 134 D | | | | |
| d5-EtFOSAA | | 142 D | | | | |
| 13C3-PFBS | | 128 D | | | | |
| 13C3-PFHxS | | 110 D | | | | |
| 13C8-PFOS | | 131 D | | | | |

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2

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW01P-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8286-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.125 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 2900.34 | J | 19.00 | 50.00 | 500.00 |
| PFHpA | 375-85-9 | 254.57 | J | 1.60 | 5.00 | 50.00 |
| PFOA | 335-67-1 | 669.14 | J | 9.00 | 25.00 | 250.00 |
| PFNA | 375-95-1 | 11.96 | | 0.52 | 2.00 | 10.00 |
| PFDA | 335-76-2 | 1.52 | J | 0.32 | 1.00 | 10.00 |
| PFUnA | 2058-94-8 | 2.00 | U | 0.58 | 2.00 | 10.00 |
| PFDoA | 307-55-1 | 1.00 | U | 0.36 | 1.00 | 10.00 |
| PFTrDA | 72629-94-8 | 1.00 | U | 0.30 | 1.00 | 10.00 |
| PFTeDA | 376-06-7 | 2.00 | U | 0.50 | 2.00 | 10.00 |
| NMeFOSAA | 2355-31-9 | 4.00 | U | 1.12 | 4.00 | 10.00 |
| NEtFOSAA | 2991-50-6 | 2.00 | U | 0.98 | 2.00 | 10.00 |
| PFBS | 375-73-5 | 748.24 | J | 6.50 | 25.00 | 250.00 |
| PFHxS | 355-46-4 | 7650.20 | J | 55.00 | 200.00 | 2500.00 |
| PFOS | 1763-23-1 | 31190.47 | J | 475.00 | 1250.00 | 12500.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 131 | | | | |
| 13C4-PFHpA | | 146 | | | | |
| 13C8-PFOA | | 116 | | | | |
| 13C9-PFNA | | 104 | | | | |
| 13C6-PFDA | | 107 | | | | |
| 13C7-PFUnA | | 122 | | | | |
| 13C2-PFDoA | | 120 | | | | |
| 13C2-PFTeDA | | 102 | | | | |
| d3-MeFOSAA | | 111 | | | | |
| d5-EtFOSAA | | 126 | | | | |
| 13C3-PFBS | | 112 | | | | |
| 13C3-PFHxS | | 147 | | | | |
| 13C8-PFOS | | 121 | | | | |

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3

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW02-0918 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8287-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/21/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.275 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 295.83 | 10.80 | 28.41 | 284.09 |
| PFHpA | 375-85-9 | 38.23 | 0.15 | 0.45 | 4.55 |
| PFOA | 335-67-1 | 167.19 | 0.82 | 2.27 | 22.73 |
| PFNA | 375-95-1 | 2.12 J | 0.24 | 0.91 | 4.55 |
| PFDA | 335-76-2 | 0.27 J | 0.15 | 0.45 | 4.55 |
| PFUnA | 2058-94-8 | 0.91 U | 0.26 | 0.91 | 4.55 |
| PFDoA | 307-55-1 | 0.45 U | 0.16 | 0.45 | 4.55 |
| PFTrDA | 72629-94-8 | 0.45 U | 0.14 | 0.45 | 4.55 |
| PFTeDA | 376-06-7 | 0.91 U | 0.23 | 0.91 | 4.55 |
| NMeFOSAA | 2355-31-9 | 1.82 U | 0.51 | 1.82 | 4.55 |
| NEtFOSAA | 2991-50-6 | 0.91 U | 0.45 | 0.91 | 4.55 |
| PFBS | 375-73-5 | 76.52 | 0.59 | 2.27 | 22.73 |
| PFHxS | 355-46-4 | 1115.91 | 6.25 | 22.73 | 284.09 |
| PFOS | 1763-23-1 | 4655.82 | 53.98 | 142.05 | 1420.45 |
| ***Surrogate Recoveries (%)*** | | | | | |
| 13C5-PFHxA | | 127 | | | |
| 13C4-PFHpA | | 113 | | | |
| 13C8-PFOA | | 109 | | | |
| 13C9-PFNA | | 110 | | | |
| 13C6-PFDA | | 119 | | | |
| 13C7-PFUnA | | 130 | | | |
| 13C2-PFDoA | | 119 | | | |
| 13C2-PFTeDA | | 93 | | | |
| d3-MeFOSAA | | 108 | | | |
| d5-EtFOSAA | | 130 | | | |
| 13C3-PFBS | | 140 | | | |
| 13C3-PFHxS | | 125 | | | |
| 13C8-PFOS | | 136 | | | |



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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW03-0918 | | | | |
| Battelle ID | | J8288-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.275 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 18.52 | | 0.17 | 0.45 | 4.55 |
| **PFHpA** | **375-85-9** | **9.10** | | **0.15** | **0.45** | **4.55** |
| PFOA | 335-67-1 | 67.75 | D | 0.82 | 2.27 | 22.73 |
| **PFNA** | **375-95-1** | **0.81** | J | **0.24** | **0.91** | **4.55** |
| PFDA | 335-76-2 | 0.45 | U | 0.15 | 0.45 | 4.55 |
| **PFUnA** | **2058-94-8** | **0.91** | U | **0.26** | **0.91** | **4.55** |
| PFDoA | 307-55-1 | 0.45 | U | 0.16 | 0.45 | 4.55 |
| **PFTrDA** | **72629-94-8** | **0.45** | U | **0.14** | **0.45** | **4.55** |
| PFTeDA | 376-06-7 | 0.91 | U | 0.23 | 0.91 | 4.55 |
| **NMeFOSAA** | **2355-31-9** | **1.82** | U | **0.51** | **1.82** | **4.55** |
| NEtFOSAA | 2991-50-6 | 0.91 | U | 0.45 | 0.91 | 4.55 |
| **PFBS** | **375-73-5** | **9.41** | | **0.12** | **0.45** | **4.55** |
| PFHxS | 355-46-4 | 64.30 | D | 0.50 | 1.82 | 22.73 |
| **PFOS** | **1763-23-1** | **65.69** | | **0.17** | **0.45** | **4.55** |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 125 | | | | |
| **13C4-PFHpA** | | **145** | | | | |
| 13C8-PFOA | | 124 | D | | | |
| **13C9-PFNA** | | **110** | | | | |
| 13C6-PFDA | | 115 | | | | |
| **13C7-PFUnA** | | **128** | | | | |
| 13C2-PFDoA | | 116 | | | | |
| **13C2-PFTeDA** | | **103** | | | | |
| d3-MeFOSAA | | 96 | D | | | |
| **d5-EtFOSAA** | | **115** | D | | | |
| 13C3-PFBS | | 123 | | | | |
| **13C3-PFHxS** | | **122** | D | | | |
| 13C8-PFOS | | 138 | | | | |

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-CS94-DW04-0918 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8289-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/21/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.285 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 39.95 | 0.17 | 0.44 | 4.39 |
| PFHpA | 375-85-9 | 26.25 | 0.14 | 0.44 | 4.39 |
| PFOA | 335-67-1 | 835.09 D | 3.95 | 10.96 | 109.65 |
| PFNA | 375-95-1 | 1.06 J | 0.23 | 0.88 | 4.39 |
| PFDA | 335-76-2 | 0.44 U | 0.14 | 0.44 | 4.39 |
| PFUnA | 2058-94-8 | 0.88 U | 0.25 | 0.88 | 4.39 |
| PFDoA | 307-55-1 | 0.44 U | 0.16 | 0.44 | 4.39 |
| PFTrDA | 72629-94-8 | 0.44 U | 0.13 | 0.44 | 4.39 |
| PFTeDA | 376-06-7 | 0.88 U | 0.22 | 0.88 | 4.39 |
| NMeFOSAA | 2355-31-9 | 1.75 U | 0.49 | 1.75 | 4.39 |
| NEtFOSAA | 2991-50-6 | 0.88 U | 0.43 | 0.88 | 4.39 |
| PFBS | 375-73-5 | 8.07 | 0.11 | 0.44 | 4.39 |
| PFHxS | 355-46-4 | 46.10 D | 0.48 | 1.75 | 21.93 |
| PFOS | 1763-23-1 | 51.45 | 0.17 | 0.44 | 4.39 |
| ***Surrogate Recoveries (%)*** | | | | | |
| 13C5-PFHxA | | 65 | | | |
| 13C4-PFHpA | | 77 | | | |
| 13C8-PFOA | | 128 D | | | |
| 13C9-PFNA | | 62 | | | |
| 13C6-PFDA | | 112 | | | |
| 13C7-PFUnA | | 121 | | | |
| 13C2-PFDoA | | 107 | | | |
| 13C2-PFTeDA | | 74 | | | |
| d3-MeFOSAA | | 149 | | | |
| d5-EtFOSAA | | 150 | | | |
| 13C3-PFBS | | 101 | | | |
| 13C3-PFHxS | | 148 D | | | |
| 13C8-PFOS | | 122 | | | |

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-CS94-DW05-0918 | | | | |
| Battelle ID | | J8290-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.290 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 43.22 | | 0.16 | 0.43 | 4.31 |
| PFHpA | 375-85-9 | 4.46 | | 0.14 | 0.43 | 4.31 |
| PFOA | 335-67-1 | 33.13 | | 0.16 | 0.43 | 4.31 |
| PFNA | 375-95-1 | 2.53 | J | 0.22 | 0.86 | 4.31 |
| PFDA | 335-76-2 | 0.16 | J | 0.14 | 0.43 | 4.31 |
| PFUnA | 2058-94-8 | 0.86 | U | 0.25 | 0.86 | 4.31 |
| PFDoA | 307-55-1 | 0.43 | U | 0.16 | 0.43 | 4.31 |
| PFTrDA | 72629-94-8 | 0.43 | U | 0.13 | 0.43 | 4.31 |
| PFTeDA | 376-06-7 | 0.86 | U | 0.22 | 0.86 | 4.31 |
| NMeFOSAA | 2355-31-9 | 1.72 | U | 0.48 | 1.72 | 4.31 |
| NEtFOSAA | 2991-50-6 | 0.86 | U | 0.42 | 0.86 | 4.31 |
| PFBS | 375-73-5 | 9.28 | | 0.11 | 0.43 | 4.31 |
| PFHxS | 355-46-4 | 113.79 | D | 0.47 | 1.72 | 21.55 |
| PFOS | 1763-23-1 | 691.52 | D | 8.19 | 21.55 | 215.52 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 128 | | | | |
| 13C4-PFHpA | | 147 | | | | |
| 13C8-PFOA | | 101 | | | | |
| 13C9-PFNA | | 84 | | | | |
| 13C6-PFDA | | 105 | | | | |
| 13C7-PFUnA | | 123 | | | | |
| 13C2-PFDoA | | 117 | | | | |
| 13C2-PFTeDA | | 81 | | | | |
| d3-MeFOSAA | | 135 | | | | |
| d5-EtFOSAA | | 135 | Φ | | | |
| 13C3-PFBS | | 144 | Φ | | | |
| 13C3-PFHxS | | 149 | Φ | | | |
| 13C8-PFOS | | 129 | Φ | | | |



10/26/18

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-SO-FB04-092118 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8308-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/21/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.265 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.47 U | 0.18 | 0.47 | 4.72 |
| PFHpA | 375-85-9 | 0.47 U | 0.15 | 0.47 | 4.72 |
| PFOA | 335-67-1 | 0.92 J U | 0.17 | 0.47 | 4.72 MBL |
| PFNA | 375-95-1 | 0.94 U | 0.25 | 0.94 | 4.72 |
| PFDA | 335-76-2 | 0.47 U | 0.15 | 0.47 | 4.72 |
| PFUnA | 2058-94-8 | 0.35 J | 0.27 | 0.94 | 4.72 |
| PFDoA | 307-55-1 | 0.46 J | 0.17 | 0.47 | 4.72 |
| PFTrDA | 72629-94-8 | 0.69 J | 0.14 | 0.47 | 4.72 |
| PFTeDA | 376-06-7 | 0.67 J | 0.24 | 0.94 | 4.72 |
| NMeFOSAA | 2355-31-9 | 1.89 U | 0.53 | 1.89 | 4.72 |
| NEtFOSAA | 2991-50-6 | 0.94 U | 0.46 | 0.94 | 4.72 |
| PFBS | 375-73-5 | 0.47 U | 0.12 | 0.47 | 4.72 |
| PFHxS | 355-46-4 | 0.38 U | 0.10 | 0.38 | 4.72 |
| PFOS | 1763-23-1 | 0.47 U | 0.18 | 0.47 | 4.72 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 121 |
| 13C4-PFHpA | 118 |
| 13C8-PFOA | 113 |
| 13C9-PFNA | 108 |
| 13C6-PFDA | 108 |
| 13C7-PFUnA | 122 |
| 13C2-PFDoA | 113 |
| 13C2-PFTeDA | 102 |
| d3-MeFOSAA | 105 |
| d5-EtFOSAA | 111 |
| 13C3-PFBS | 113 |
| 13C3-PFHxS | 121 |
| 13C8-PFOS | 143 |

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | | |
|---|---|---|---|---|---|---|
| Client ID | | VC-SO-EB04-092118 | | | | |
| Battelle ID | | J8309-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/21/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | AQ | | | | |
| Sample Size | | 0.260 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.48 U | | 0.18 | 0.48 | 4.81 |
| PFHpA | 375-85-9 | 0.48 U | | 0.15 | 0.48 | 4.81 |
| PFOA | 335-67-1 | 1.06 J U | | 0.17 | 0.48 | 4.81 |
| PFNA | 375-95-1 | 0.96 U | | 0.25 | 0.96 | 4.81 |
| PFDA | 335-76-2 | 0.48 U | | 0.15 | 0.48 | 4.81 |
| PFUnA | 2058-94-8 | 0.32 J | | 0.28 | 0.96 | 4.81 |
| PFDoA | 307-55-1 | 0.38 J | | 0.17 | 0.48 | 4.81 |
| PFTrDA | 72629-94-8 | 0.50 J | | 0.14 | 0.48 | 4.81 |
| PFTeDA | 376-06-7 | 0.51 J | | 0.24 | 0.96 | 4.81 |
| NMeFOSAA | 2355-31-9 | 1.92 U | | 0.54 | 1.92 | 4.81 |
| NEtFOSAA | 2991-50-6 | 0.96 U | | 0.47 | 0.96 | 4.81 |
| PFBS | 375-73-5 | 0.48 U | | 0.13 | 0.48 | 4.81 |
| PFHxS | 355-46-4 | 0.38 U | | 0.11 | 0.38 | 4.81 |
| PFOS | 1763-23-1 | 0.37 J | | 0.18 | 0.48 | 4.81 |

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***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 119 |
| 13C4-PFHpA | 117 |
| 13C8-PFOA | 112 |
| 13C9-PFNA | 101 |
| 13C6-PFDA | 119 |
| 13C7-PFUnA | 119 |
| 13C2-PFDoA | 120 |
| 13C2-PFTeDA | 123 |
| d3-MeFOSAA | 123 |
| d5-EtFOSAA | 116 |
| 13C3-PFBS | 135 |
| 13C3-PFHxS | 128 |
| 13C8-PFOS | 133 |

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9

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-324-DW01-0918 | | | | |
|---|---|---|---|---|---|---|
| Battelle ID | | J8319-FS | | | | |
| Sample Type | | SA | | | | |
| Collection Date | | 09/20/2018 | | | | |
| Extraction Date | | 09/28/2018 | | | | |
| Analysis Date | | 10/06/2018 | | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | | |
| % Moisture | | NA | | | | |
| Matrix | | GW | | | | |
| Sample Size | | 0.002 | | | | |
| Size Unit-Basis | | L | | | | |
| Units | | ng/L | | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 290462.77 D | | 1187.50 | 3125.00 | 31250.00 |
| PFHpA | 375-85-9 | 37625.38 D | | 200.00 | 625.00 | 6250.00 |
| PFOA | 335-67-1 | 93975.76 D | | 1125.00 | 3125.00 | 31250.00 |
| PFNA | 375-95-1 | 1606.04 | | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 62.50 U | | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 U | | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 U | | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 U | | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 U | | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 U | | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 U | | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 192484.14 D | | 812.50 | 3125.00 | 31250.00 |
| PFHxS | 355-46-4 | 1829893.56 D | J | 3437.50 | 12500.00 | 156250.00 FD |
| PFOS | 1763-23-1 | 2277022.98 D | | 29687.50 | 78125.00 | 781250.00 |
| ***Surrogate Recoveries (%)*** | | | | | | |
| 13C5-PFHxA | | 131 D | | | | |
| 13C4-PFHpA | | 128 D | | | | |
| 13C8-PFOA | | 125 D | | | | |
| 13C9-PFNA | | 113 D | | | | |
| 13C6-PFDA | | 109 | | | | |
| 13C7-PFUnA | | 117 | | | | |
| 13C2-PFDoA | | 106 | | | | |
| 13C2-PFTeDA | | 104 | | | | |
| d3-MeFOSAA | | 113 D | | | | |
| d5-EtFOSAA | | 133 D | | | | |
| 13C3-PFBS | | 125 D | | | | |
| 13C3-PFHxS | | 115 D | | | | |
| 13C8-PFOS | | 121 D | | | | |

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10

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-324-DW01P-0918 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8320-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.002 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 240605.51 | 1187.50 | 3125.00 | 31250.00 |
| PFHpA | 375-85-9 | 41198.27 | 250.00 | 781.25 | 7812.50 |
| PFOA | 335-67-1 | 84927.54 | 1125.00 | 3125.00 | 31250.00 |
| PFNA | 375-95-1 | 1691.83 | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 93.88 J | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 161646.30 | 812.50 | 3125.00 | 31250.00 |
| PFHxS | 355-46-4 | 1135491.62 J | 13750.00 | 50000.00 | 625000.00 |
| PFOS | 1763-23-1 | 1859368.47 | 23750.00 | 62500.00 | 625000.00 |

FD

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 137 |
| 13C4-PFHpA | 128 |
| 13C8-PFOA | 127 |
| 13C9-PFNA | 106 |
| 13C6-PFDA | 104 |
| 13C7-PFUnA | 114 |
| 13C2-PFDoA | 106 |
| 13C2-PFTeDA | 98 |
| d3-MeFOSAA | 88 |
| d5-EtFOSAA | 115 |
| 13C3-PFBS | 121 |
| 13C3-PFHxS | 132 |
| 13C8-PFOS | 120 |



NW 12/26/18

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11

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-324-DW02-0918 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8321-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.002 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 533887.52 | 2968.75 | 7812.50 | 78125.00 |
| PFHpA | 375-85-9 | 62015.72 | 200.00 | 625.00 | 6250.00 |
| PFOA | 335-67-1 | 94310.25 | 562.50 | 1562.50 | 15625.00 |
| PFNA | 375-95-1 | 538.40 J | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 62.50 U | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 403376.78 | 2031.25 | 7812.50 | 78125.00 |
| PFHxS | 355-46-4 | 1477828.48 | 8593.75 | 31250.00 | 390625.00 |
| PFOS | 1763-23-1 | 652847.24 | 2968.75 | 7812.50 | 78125.00 |
| ***Surrogate Recoveries (%)*** | | | | | |
| 13C5-PFHxA | | 120 | | | |
| 13C4-PFHpA | | 132 | | | |
| 13C8-PFOA | | 119 | | | |
| 13C9-PFNA | | 107 | | | |
| 13C6-PFDA | | 103 | | | |
| 13C7-PFUnA | | 123 | | | |
| 13C2-PFDoA | | 113 | | | |
| 13C2-PFTeDA | | 95 | | | |
| d3-MeFOSAA | | 118 | | | |
| d5-EtFOSAA | | 117 | | | |
| 13C3-PFBS | | 146 | | | |
| 13C3-PFHxS | | 123 | | | |
| 13C8-PFOS | | 144 | | | |



MW 12/6/18

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12

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | |
|---|---|---|---|---|---|
| Client ID | | VC-PM323-324-DW03-0918 | | | |
| Battelle ID | | J8322-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.002 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 3158327.03 D | 98958.34 | 260416.69 | 2604166.88 |
| PFHpA | 375-85-9 | 490433.60 D | 8333.34 | 26041.69 | 260416.88 |
| PFOA | 335-67-1 | 1071529.99 D | 9375.01 | 26041.69 | 260416.88 |
| PFNA | 375-95-1 | 8063.63 | 32.50 | 125.00 | 625.00 |
| PFDA | 335-76-2 | 546.37 J | 20.00 | 62.50 | 625.00 |
| PFUnA | 2058-94-8 | 125.00 U | 36.25 | 125.00 | 625.00 |
| PFDoA | 307-55-1 | 62.50 U | 22.50 | 62.50 | 625.00 |
| PFTrDA | 72629-94-8 | 62.50 U | 18.75 | 62.50 | 625.00 |
| PFTeDA | 376-06-7 | 125.00 U | 31.25 | 125.00 | 625.00 |
| NMeFOSAA | 2355-31-9 | 250.00 U | 70.00 | 250.00 | 625.00 |
| NEtFOSAA | 2991-50-6 | 125.00 U | 61.25 | 125.00 | 625.00 |
| PFBS | 375-73-5 | 2034520.47 D | 6770.84 | 26041.69 | 260416.88 |
| PFHxS | 355-46-4 | 12586869.28 D | 57291.67 | 208333.35 | 2604166.88 |
| PFOS | 1763-23-1 | 13407957.09 D | 98958.34 | 260416.69 | 2604166.88 |
| ***Surrogate Recoveries (%)*** | | | | | |
| 13C5-PFHxA | | 124 D | | | |
| 13C4-PFHpA | | 116 D | | | |
| 13C8-PFOA | | 117 D | | | |
| 13C9-PFNA | | 119 D | | | |
| 13C6-PFDA | | 117 | | | |
| 13C7-PFUnA | | 129 | | | |
| 13C2-PFDoA | | 117 | | | |
| 13C2-PFTeDA | | 106 | | | |
| d3-MeFOSAA | | 113 D | | | |
| d5-EtFOSAA | | 121 D | | | |
| 13C3-PFBS | | 109 D | | | |
| 13C3-PFHxS | | 120 D | | | |
| 13C8-PFOS | | 125 D | | | |

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13

Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-AQ-FB03-092018 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8323-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.270 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.46 U | 0.18 | 0.46 | 4.63 |
| PFHpA | 375-85-9 | 0.46 U | 0.15 | 0.46 | 4.63 |
| PFOA | 335-67-1 | 0.85 J U | 0.17 | 0.46 | 4.63 MBL |
| PFNA | 375-95-1 | 0.93 U | 0.24 | 0.93 | 4.63 |
| PFDA | 335-76-2 | 0.46 U | 0.15 | 0.46 | 4.63 |
| PFUnA | 2058-94-8 | 0.93 U | 0.27 | 0.93 | 4.63 |
| PFDoA | 307-55-1 | 0.18 J | 0.17 | 0.46 | 4.63 |
| PFTrDA | 72629-94-8 | 0.24 J | 0.14 | 0.46 | 4.63 |
| PFTeDA | 376-06-7 | 0.25 J | 0.23 | 0.93 | 4.63 |
| NMeFOSAA | 2355-31-9 | 1.85 U | 0.52 | 1.85 | 4.63 |
| NEtFOSAA | 2991-50-6 | 0.93 U | 0.45 | 0.93 | 4.63 |
| PFBS | 375-73-5 | 0.46 U | 0.12 | 0.46 | 4.63 |
| PFHxS | 355-46-4 | 0.37 U | 0.10 | 0.37 | 4.63 |
| PFOS | 1763-23-1 | 0.46 U | 0.18 | 0.46 | 4.63 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 111 |
| 13C4-PFHpA | 110 |
| 13C8-PFOA | 106 |
| 13C9-PFNA | 106 |
| 13C6-PFDA | 113 |
| 13C7-PFUnA | 116 |
| 13C2-PFDoA | 106 |
| 13C2-PFTeDA | 107 |
| d3-MeFOSAA | 100 |
| d5-EtFOSAA | 117 |
| 13C3-PFBS | 123 |
| 13C3-PFHxS | 129 |
| 13C8-PFOS | 138 |

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-AQ-EB03-092018 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8324-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/05/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | AQ | | | |
| Sample Size | | 0.210 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 0.60 U | 0.23 | 0.60 | 5.95 |
| PFHpA | 375-85-9 | 0.60 U | 0.19 | 0.60 | 5.95 |
| PFOA | 335-67-1 | 1.51 J U | 0.21 | 0.60 | 5.95 MBL |
| PFNA | 375-95-1 | 1.19 U | 0.31 | 1.19 | 5.95 |
| PFDA | 335-76-2 | 0.60 U | 0.19 | 0.60 | 5.95 |
| PFUnA | 2058-94-8 | 1.19 U | 0.35 | 1.19 | 5.95 |
| PFDoA | 307-55-1 | 0.60 U | 0.21 | 0.60 | 5.95 |
| PFTrDA | 72629-94-8 | 0.19 J | 0.18 | 0.60 | 5.95 |
| PFTeDA | 376-06-7 | 1.19 U | 0.30 | 1.19 | 5.95 |
| NMeFOSAA | 2355-31-9 | 2.38 U | 0.67 | 2.38 | 5.95 |
| NEtFOSAA | 2991-50-6 | 1.19 U | 0.58 | 1.19 | 5.95 |
| PFBS | 375-73-5 | 0.60 U | 0.15 | 0.60 | 5.95 |
| PFHxS | 355-46-4 | 0.32 J | 0.13 | 0.48 | 5.95 |
| PFOS | 1763-23-1 | 15.13 | 0.23 | 0.60 | 5.95 |

***Surrogate Recoveries (%)***

| | |
|---|---|
| 13C5-PFHxA | 115 |
| 13C4-PFHpA | 114 |
| 13C8-PFOA | 108 |
| 13C9-PFNA | 108 |
| 13C6-PFDA | 126 |
| 13C7-PFUnA | 129 |
| 13C2-PFDoA | 121 |
| 13C2-PFTeDA | 130 |
| d3-MeFOSAA | 87 |
| d5-EtFOSAA | 105 |
| 13C3-PFBS | 107 |
| 13C3-PFHxS | 108 |
| 13C8-PFOS | 106 |

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM323-DW02-0918 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8330-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.100 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 11894.21 D | 197.92 | 520.83 | 5208.34 |
| PFHpA | 375-85-9 | 1440.83 D | 10.00 | 31.25 | 312.50 |
| PFOA | 335-67-1 | 1817.08 D | 11.25 | 31.25 | 312.50 |
| PFNA | 375-95-1 | 4.53 J | 0.65 | 2.50 | 12.50 |
| PFDA | 335-76-2 | 1.25 U | 0.40 | 1.25 | 12.50 |
| PFUnA | 2058-94-8 | 2.50 U | 0.73 | 2.50 | 12.50 |
| PFDoA | 307-55-1 | 1.25 U | 0.45 | 1.25 | 12.50 |
| PFTrDA | 72629-94-8 | 1.25 U | 0.38 | 1.25 | 12.50 |
| PFTeDA | 376-06-7 | 2.50 U | 0.63 | 2.50 | 12.50 |
| NMeFOSAA | 2355-31-9 | 5.00 U | 1.40 | 5.00 | 12.50 |
| NEtFOSAA | 2991-50-6 | 2.50 U | 1.23 | 2.50 | 12.50 |
| PFBS | 375-73-5 | 9969.22 D | 135.42 | 520.83 | 5208.34 |
| PFHxS | 355-46-4 | 39703.31 D | 114.58 | 416.67 | 5208.34 |
| PFOS | 1763-23-1 | 1980.13 D | 11.88 | 31.25 | 312.50 |
| ***Surrogate Recoveries (%)*** | | | | | |
| 13C5-PFHxA | | 118 D | | | |
| 13C4-PFHpA | | 120 D | | | |
| 13C8-PFOA | | 108 D | | | |
| 13C9-PFNA | | 71 | | | |
| 13C6-PFDA | | 120 | | | |
| 13C7-PFUnA | | 122 | | | |
| 13C2-PFDoA | | 111 | | | |
| 13C2-PFTeDA | | 97 | | | |
| d3-MeFOSAA | | 124 | | | |
| d5-EtFOSAA | | 120 D | | | |
| 13C3-PFBS | | 121 D | | | |
| 13C3-PFHxS | | 109 D | | | |
| 13C8-PFOS | | 147 D | | | |

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| | | | | | |
|---|---|---|---|---|---|
| Client ID | | VC-PM323-DW02P-0918 | | | |
| Battelle ID | | J8331-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.100 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 11881.64 | 47.50 | 125.00 | 1250.00 |
| PFHpA | 375-85-9 | 1498.54 | 40.00 | 125.00 | 1250.00 |
| PFOA | 335-67-1 | 1792.14 | 45.00 | 125.00 | 1250.00 |
| PFNA | 375-95-1 | 3.89 J | 0.65 | 2.50 | 12.50 |
| PFDA | 335-76-2 | 1.25 U | 0.40 | 1.25 | 12.50 |
| PFUnA | 2058-94-8 | 2.50 U | 0.73 | 2.50 | 12.50 |
| PFDoA | 307-55-1 | 1.25 U | 0.45 | 1.25 | 12.50 |
| PFTrDA | 72629-94-8 | 1.25 U | 0.38 | 1.25 | 12.50 |
| PFTeDA | 376-06-7 | 2.50 U | 0.63 | 2.50 | 12.50 |
| NMeFOSAA | 2355-31-9 | 5.00 U | 1.40 | 5.00 | 12.50 |
| NEtFOSAA | 2991-50-6 | 2.50 U | 1.23 | 2.50 | 12.50 |
| PFBS | 375-73-5 | 9828.61 | 32.50 | 125.00 | 1250.00 |
| PFHxS | 355-46-4 | 40736.06 | 68.75 | 250.00 | 3125.00 |
| PFOS | 1763-23-1 | 1921.73 | 47.50 | 125.00 | 1250.00 |
| ***Surrogate Recoveries (%)*** | | | | | |
| 13C5-PFHxA | | 124 | | | |
| 13C4-PFHpA | | 123 | | | |
| 13C8-PFOA | | 119 | | | |
| 13C9-PFNA | | 80 | | | |
| 13C6-PFDA | | 110 | | | |
| 13C7-PFUnA | | 114 | | | |
| 13C2-PFDoA | | 104 | | | |
| 13C2-PFTeDA | | 105 | | | |
| d3-MeFOSAA | | 90 | | | |
| d5-EtFOSAA | | 123 | | | |
| 13C3-PFBS | | 134 | | | |
| 13C3-PFHxS | | 113 | | | |
| 13C8-PFOS | | 121 | | | |



NW121261.8

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Project Client: CH2M
Project Name: CTO-4164 Naval Base Ventura County, California
Project No.: 100110125-01

| Client ID | | VC-PM324-DW02-0918 | | | |
|---|---|---|---|---|---|
| Battelle ID | | J8337-FS | | | |
| Sample Type | | SA | | | |
| Collection Date | | 09/20/2018 | | | |
| Extraction Date | | 09/28/2018 | | | |
| Analysis Date | | 10/06/2018 | | | |
| Analytical Instrument | | Sciex 5500 LC/MS/MS | | | |
| % Moisture | | NA | | | |
| Matrix | | GW | | | |
| Sample Size | | 0.125 | | | |
| Size Unit-Basis | | L | | | |
| Units | | ng/L | MDL | LOD | LOQ |
| PFHxA | 307-24-4 | 3251.34 D | 12.67 | 33.33 | 333.33 |
| PFHpA | 375-85-9 | 634.23 D | 3.20 | 10.00 | 100.00 |
| PFOA | 335-67-1 | 1477.57 D | 12.00 | 33.33 | 333.33 |
| PFNA | 375-95-1 | 12.03 | 0.52 | 2.00 | 10.00 |
| PFDA | 335-76-2 | 1.17 J | 0.32 | 1.00 | 10.00 |
| PFUnA | 2058-94-8 | 2.00 U | 0.58 | 2.00 | 10.00 |
| PFDoA | 307-55-1 | 1.00 U | 0.36 | 1.00 | 10.00 |
| PFTrDA | 72629-94-8 | 1.00 U | 0.30 | 1.00 | 10.00 |
| PFTeDA | 376-06-7 | 2.00 U | 0.50 | 2.00 | 10.00 |
| NMeFOSAA | 2355-31-9 | 4.00 U | 1.12 | 4.00 | 10.00 |
| NEtFOSAA | 2991-50-6 | 2.00 U | 0.98 | 2.00 | 10.00 |
| PFBS | 375-73-5 | 3501.38 D | 8.67 | 33.33 | 333.33 |
| PFHxS | 355-46-4 | 26686.80 D | 366.67 | 1333.33 | 16666.67 |
| PFOS | 1763-23-1 | 5312.32 D | 19.00 | 50.00 | 500.00 |
| ***Surrogate Recoveries (%)*** | | | | | |
| 13C5-PFHxA | | 134 D | | | |
| 13C4-PFHpA | | 128 D | | | |
| 13C8-PFOA | | 116 D | | | |
| 13C9-PFNA | | 78 | | | |
| 13C6-PFDA | | 106 | | | |
| 13C7-PFUnA | | 110 | | | |
| 13C2-PFDoA | | 97 | | | |
| 13C2-PFTeDA | | 94 | | | |
| d3-MeFOSAA | | 139 | | | |
| d5-EtFOSAA | | 131 | | | |
| 13C3-PFBS | | 128 D | | | |
| 13C3-PFHxS | | 121 D | | | |
| 13C8-PFOS | | 108 D | | | |

| LOCATION_NAME | SITE_NAME | INSTALLATION_ID | LOCATION_TYPE | LOCATION_TYPE_DESC | SDG | COORD_X | COORD_Y | ANALYTICAL_METHOD_GRP_DESC | SAMPLE_NAME | SAMPLE_MATRIX | SAMPLE_MATRIX_DESC | COLLECT_DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VC-CS94-SO01 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225086.5 | 1866988.3 | Perfluoroalkyl Compounds | VC-CS94-DW01-0918 | WG | Ground water | 21-Sep-18 |
| VC-CS94-SO01 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225086.5 | 1866988.3 | Perfluoroalkyl Compounds | VC-CS94-DW01P-0918 | WG | Ground water | 21-Sep-18 |
| VC-CS94-SO02 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225958.5 | 1866743.4 | Perfluoroalkyl Compounds | VC-CS94-DW02-0918 | WG | Ground water | 21-Sep-18 |
| VC-CS94-SO03 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225376.8 | 1866991.8 | Perfluoroalkyl Compounds | VC-CS94-DW03-0918 | WG | Ground water | 21-Sep-18 |
| VC-CS94-SO04 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225820.1 | 1866898.1 | Perfluoroalkyl Compounds | VC-CS94-DW04-0918 | WG | Ground water | 21-Sep-18 |
| VC-CS94-SO05 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225629.1 | 1866836.9 | Perfluoroalkyl Compounds | VC-CS94-DW05-0918 | WG | Ground water | 21-Sep-18 |
| VC-PM323-324-SO01 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225733.1 | 1868828.2 | Perfluoroalkyl Compounds | VC-PM323-324-DW01-0918 | WG | Ground water | 20-Sep-18 |
| VC-PM323-324-SO01 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225733.1 | 1868828.2 | Perfluoroalkyl Compounds | VC-PM323-324-DW01P-0918 | WG | Ground water | 20-Sep-18 |
| VC-PM323-324-SO02 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225820.7 | 1868773.2 | Perfluoroalkyl Compounds | VC-PM323-324-DW02-0918 | WG | Ground water | 20-Sep-18 |
| VC-PM323-324-SO03 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225752.8 | 1868693.8 | Perfluoroalkyl Compounds | VC-PM323-324-DW03-0918 | WG | Ground water | 20-Sep-18 |
| VC-PM323-SO02 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225584.6 | 1868670.6 | Perfluoroalkyl Compounds | VC-PM323-DW02-0918 | WG | Ground water | 20-Sep-18 |
| VC-PM323-SO02 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225584.6 | 1868670.6 | Perfluoroalkyl Compounds | VC-PM323-DW02P-0918 | WG | Ground water | 20-Sep-18 |
| VC-PM324-SO02 | BASEWIDE PFAS | POINT_MUGU_NAS | DP | Direct Push/Geoprobe | 18-0580 | 6225429.5 | 1868974.2 | Perfluoroalkyl Compounds | VC-PM324-DW02-0918 | WG | Ground water | 20-Sep-18 |
| | | POINT_MUGU_NAS | | | 18-0580 | | | Perfluoroalkyl Compounds | VC-AQ-EB03-092018 | WQ | Water for QC samples | 20-Sep-18 |
| | | POINT_MUGU_NAS | | | 18-0580 | | | Perfluoroalkyl Compounds | VC-AQ-FB03-092018 | WQ | Water for QC samples | 20-Sep-18 |
| | | POINT_MUGU_NAS | | | 18-0580 | | | Perfluoroalkyl Compounds | VC-SO-EB04-092118 | WQ | Water for QC samples | 21-Sep-18 |
| | | POINT_MUGU_NAS | | | 18-0580 | | | Perfluoroalkyl Compounds | VC-SO-FB04-092118 | WQ | Water for QC samples | 21-Sep-18 |