Naval Facilities Engineering Command Southwest
BRAC PMO West
San Diego, California

FINAL

Technical Memorandum for Perfluorinated Compounds in Groundwater, Installation Restoration Sites 9 and 10

Hunters Point Naval Shipyard
San Francisco, California

June 2018

Approved for public release; distribution is unlimited

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TREVET

Technical Memorandum

Date: June 5, 2018 Trevet Project No: A174

To: Leo Larson, Remedial Project Manager, NAVFAC BRAC PMO

From: Erin Hunter, Project Manager, Trevet

Subject: Technical Memorandum for Perfluorinated Compounds in Groundwater, Installation Restoration Sites 9 and 10, Hunters Point Naval Shipyard, San Francisco, California (Contract Number: N62473-16-C-2004)

DCN: TRVT-2004-0000-0013

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1. Introduction

This Technical Memorandum summarizes the August 2017 investigation for per- and polyfluorinated substances (PFAS) in groundwater at Installation Restoration (IR) Sites 9 and 10 at Hunters Point Naval Shipyard (HPNS) in San Francisco, California (Figure 1). The objective of this investigation was to determine if PFAS compounds perfluorooctanoic acid (PFOA), perfluorooctane sulfanate (PFOS), and perfluorobutanesulfonic acid (PFBS) exist in groundwater at concentrations exceeding federal screening criteria (FSC). Trevet prepared this memorandum in accordance with Naval Facilities Engineering Command (NAVFAC) Southwest Contract Number N62473-16-C-2004 for the Department of the Navy (Navy) and the Base Realignment and Closure (BRAC) Project Management Office (PMO) West.

The August 2017 PFAS investigation included sampling three groundwater monitoring wells at IR Site 9 and three groundwater monitoring wells at IR Site 10 in upgradient, mid-gradient, and downgradient areas. Groundwater samples were analyzed for PFAS compounds PFOA, PFOS, combined PFOA and PFOS, and using U.S. Environmental Protection Agency (EPA) Method 537 Modified. An additional 11 PFAS compounds were also analyzed using U.S. EPA Method 537 Modified. Groundwater samples were analyzed by Vista Analytical Laboratories, El Dorado Hills, California (Vista). Vista is accredited by the Department of Defense (DoD) Environmental Laboratory Accreditation Program and is certified to analyze samples using EPA Method 537 Modified under the DoD Quality Systems Manual version 5.1 (DoD 2017).

PFOS, PFOA, combined PFOA and PFOS, and PFBS are the only PFAS compounds that have been assigned FSC; therefore, they will be the only compounds evaluated in this Technical Memorandum. The results of this investigation will be used to determine whether additional environmental studies are warranted at HPNS.

2. Background

The HPNS property was placed on the National Priority List in 1989 pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, as amended by the Superfund Amendments and Reauthorization Act, because past shipyard operations released hazardous substances on site. In 1991, HPNS was designated for closure pursuant to the Defense Base Closure and Realignment Act of 1990. Sites at HPNS were evaluated for past uses that indicate potential for PFAS to be present. A brief summary of the histories of IR Sites 9 and 10 at HPNS are presented below, including the rationale for selecting wells for sampling at each site.

2.1 Installation Restoration Site 9

IR Site 9, Pickling and Plating Yard, located in Parcel G, was used for metal finishing operations that were identified as a potential source of PFAS impacts to groundwater. Parcel G is located within the central portion of former Parcel D (Figure 2). Parcel G is bounded by Spear Avenue to the north, Morrell Street to the east, Manseau Street to the south, and H Street to the west. Groundwater impacts in Parcel G are attributed to industrial activities by the Navy and other tenants and is associated with spills and leaks that have percolated into groundwater. The Record of Decision (ROD) for Parcel G specified the chemicals of concern for groundwater to be selected volatile organic

compounds (VOCs) and metals (Navy 2009a). The completed remedy for groundwater included in-situ treatment with zero-valent iron, groundwater monitoring, and institutional controls.

2.2 Installation Restoration Site 10

IR Site 10, Battery and Plating Shop, located in Building 123 in Parcel B-1, was a battery storage and electroplating shop that the Navy identified as a potential source of PFAS impacts to groundwater. Parcel B-1 is located on the northernmost portion of HPNS and was part of former Parcel B (Figure 3). Parcel B was used as an industrial support area for shipping, ship repair, training, and as living quarters (barracks) and offices. Activities such as painting, metalworking, and storage, usage, and disposal of liquids and fuels were potential sources of contamination at Parcel B. Currently, Parcel B-1 is undergoing groundwater monitoring for VOCs and metals based on impacts from these sources (Navy 2009b).

3. Field Investigation Program

The three main components of the field investigation conducted in August 2017 included monitoring well inspections and preparation, groundwater sampling, and managing investigation-derived waste. Procedures and methodologies are listed below.

Before the sampling event began, all field and sampling equipment used was carefully inspected to ensure that there was no cross contamination from materials that are known to, or could, contain PFAS. Strict field protocols were followed (Attachment A).

3.1 Monitoring Well Inspections and Preparation

Prior to sampling for PFAS, groundwater monitoring wells were inspected, and all dedicated equipment was removed. The integrity of each monitoring well was verified, and the total depths of the monitoring wells matched their construction details. No redevelopment was required prior to PFAS sampling.

At least five bore volumes of groundwater were extracted from monitoring wells that contained Snap Samplers or dedicated bladder pumps with Teflon components (pumps, tubing, and similar equipment) using manual or pumping methods before groundwater samples were collected. Out of the six monitoring wells scheduled to be sampled, only monitoring wells IR10MW13A1 and IR10MW31A1 had dedicated equipment. Five borehole volumes were extracted from these monitoring wells using a Solinst peristaltic pump with dedicated silicon tubing. New silicon tubing was lowered to approximately mid-screen, then, the silicon tubing was fed through the peristaltic pump. The pumping rate was set at a rate the monitoring well could sustain without going dry. The five borehole volumes were removed from these monitoring wells on July 31, 2017 (Attachment B).

3.2 Groundwater Sampling

Groundwater samples were collected on August 1, 2017. Samples were collected from six monitoring wells, three from IR Site 9 and three from IR Site 10. Each set of wells contained an upgradient, a mid-gradient, and a downgradient well. Groundwater samples were analyzed by Vista for PFOA, PFAS, PFBS, combined PFOA/PFOS, and an additional 11 PFAS compounds by EPA Method 537 Modified.

During the August 2017 PFAS sampling event, monitoring wells were sampled using non-dedicated QED Sample Pro bladder pump with high-density polyethylene tubing and a disposable bladder. The

well depths and pump intake depths are summarized in Table 1. The groundwater samples were collected using low-flow groundwater sampling techniques (EPA 2010). These procedures use low-flow rate (from 100 to 500 milliliters per minute) to maintain minimal drawdown in the saturated zone.

Water quality parameters were collected from a flow-through cell during purging using standardized field measurement protocols. All field equipment and instrumentation were calibrated in accordance with the manufacturer's specifications or the applicable test. Water quality parameters were continuously measured and recorded at approximately 3- to 5-minute intervals during low-flow purging. Purging of a well was considered complete when the field measurements had stabilized. Field measurements were considered stable when three successive readings measured within ±3 percent for electrical conductivity, ±0.1 unit for pH, and ±0.3 milligrams per liter for dissolved oxygen. Some water quality parameters (temperature, turbidity, and oxygen/reduction potential) were monitored and recorded but were not used to assess subsurface conditions per the Sampling and Analysis Plan (Trevet 2017). Field measurement data collection during groundwater sampling are presented in the field forms included in Appendix B.

After purging was complete, the flow-through cell was disconnected, and the groundwater was transferred directly into the appropriate laboratory-provided sample containers through the dedicated discharge tubing. Sample containers submitted for laboratory analysis were capped and placed in insulated sample coolers with bagged ice. The samples were stored and transferred under full chain-of-custody protocol to Vista for analysis. Laboratory reports and chain-of custody documentation are included in Attachment C.

3.3 Investigation-Derived Waste

Purge water generated during groundwater sampling and rinse water from decontamination were temporarily stored in 55-gallon drums and a 500-gallon holding tank at the field trailer area in HPNS Parcel C. The wastewater generated during groundwater sampling events at HPNS was sampled and analyzed for analytes that meet the San Francisco Public Utilities Commissions batch wastewater discharge permit requirements. The batch permit discharge application was approved on September 29, 2017. Wastewater from the PFAS monitoring event was discharged down the city's sanitary sewer system via the manhole located on Crisp Road, as identified on the permit, on November 15, 2017.

4. Groundwater Analytical Results

Six monitoring wells were sampled as part of this PFAS investigation om August 2, 2017 (Table 1). The wells consisted of three monitoring wells located within each IR Site; an upgradient, a mid-gradient, and a downgradient monitoring well. This section presents the analytical results for each IR Site.

4.1 IR Site 9

Monitoring wells IR09MW61A, IR09MW62A, and IR09P040A were sampled on August 2, 2017 (Figure 2). PFOA was detected in two of the three wells, upgradient monitoring well IR09MW61A and downgradient monitoring well IR09P040A, at concentrations of 11.9 and 8.45 (estimated) nanogram per liter (ng/L), respectively; these concentrations do not exceed the FSC of 70 ng/L. PFOS was detected in all three monitoring wells at concentrations ranging from 7.09 (estimated) ng/L in upgradient monitoring well IR09MW61A to 14.2 ng/L in downgradient monitoring well IR09P040A; these concentrations do not exceed the FSC of 70 ng/L. Combined concentrations of PFOA and

PFOS ranged from 11.7 ng/L in mid-gradient monitoring well IR09MW62A to 22.6 ng/L in downgradient monitoring well IR09P040A; these concentrations do not exceed the FSC of 70 ng/L. PFBS was detected in two of the three wells at estimated concentrations of 1.93 ng/L in downgradient monitoring well IR09P040A and 3.90 ng/L in upgradient monitoring well IR09MW61A; these concentrations do not exceed the FSC of 380 ng/L for this compound (Table 2; Figure 2)

4.2 IR Site 10

Monitoring wells IR10MW28A, IR10MW13A1, and IR10MW31A1 were sampled on August 2, 2017 (Figure 3). PFOA and PFOS were detected in one of the three monitoring wells, upgradient monitoring well IR10MW28A, at concentrations of 38.2 and 21.1 ng/L, respectively; these concentrations do not exceed the FSC of 70 ng/L for these compounds. The combined reported concentration of PFOA and PFOS in this upgradient monitoring well was 59.2 ng/L, which does not exceed the combined FSC of 70 ng/L. PFBS was reported in one of the three monitoring wells, downgradient monitoring well IR10MW31A1, at an estimated concentration of 2.28 ng/L, which does not exceed the FSC of 380 ng/L for this compound (Table 2; Figure 3).

5. Summary and Conclusions

The scope of this PFAS groundwater monitoring investigation was to evaluate whether PFAS compounds PFOA, PFOS, combined PFOA and PFOS, and PFBS are present above their respective FSCs in groundwater. The PFAS groundwater monitoring investigation was performed between July 31 and August 1, 2017 at IR Site 9 and 10. The following summarized the results of the groundwater monitoring investigation at IR Site 9 and 10:

<u>IR Site 9</u>

- PFOA and PFBS were detected in two of the three monitoring wells sampled at IR Site 9, upgradient well IR09MW61A and downgradient well IR09P040A. PFOA was detected at a concentration of 11.9 ng/L in monitoring well IR09MW61A and an estimated concentration of 8.45 ng/L in monitoring well IR09P040A. PFBS was detected at an estimated concentration of 3.90 ng/L in monitoring well IR09MW61A and an estimated concentration of 1.93 ng/L in monitoring well IR09P040A. These detections of PFOA and PFBS did not exceed the FSC of 70 ng/L and 380 ng/L, respectively.
- PFOS was detected in monitoring wells IR09MW61A, IR09MW62A, and IR09P040A at concentrations of 7.09 (estimated), 11.7, and 14.2 ng/L, respectively. These detections of PFOS did not exceed the FSC of 70 ng/L.
- Combined PFOA and PFOS was detected in monitoring wells IR09MW61A, IR09MW62A, and IR09MW40A at concentrations of 19, 11.7, and 22.6 ng/L, respectively. These detections of combined PFOA and PFOS did not exceed the FSC of 70 ng/L.

<u>IR Site 10</u>

- PFOA and PFOS were detected in one of the three monitoring wells sampled at IR Site 10, upgradient monitoring well IR10MW28A, at concentrations of 38.2 and 21.1 ng/L. These detections of PFOA and PFOS did not exceed the FSC of 70 ng/L for these compounds.

- The combined reported concentration PFOA and PFOS in monitoring well IR10MW28A was 59.2 ng/L, which did not exceed the FSC of 70 ng/L.
- PFBS was detected in one of the three monitoring wells sampled at IR Site 10, downgradient well IR10MW31A1, at an estimated concentration of 2.28 ng/L. This detection of PFBS did not exceed the FSC of 380 ng/L.

Based on the results from this investigation, PFAS compounds do not exist in groundwater samples taken from potential sources areas at concentrations exceeding their respective FSCs, therefore, no further investigation is warranted.

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6. References

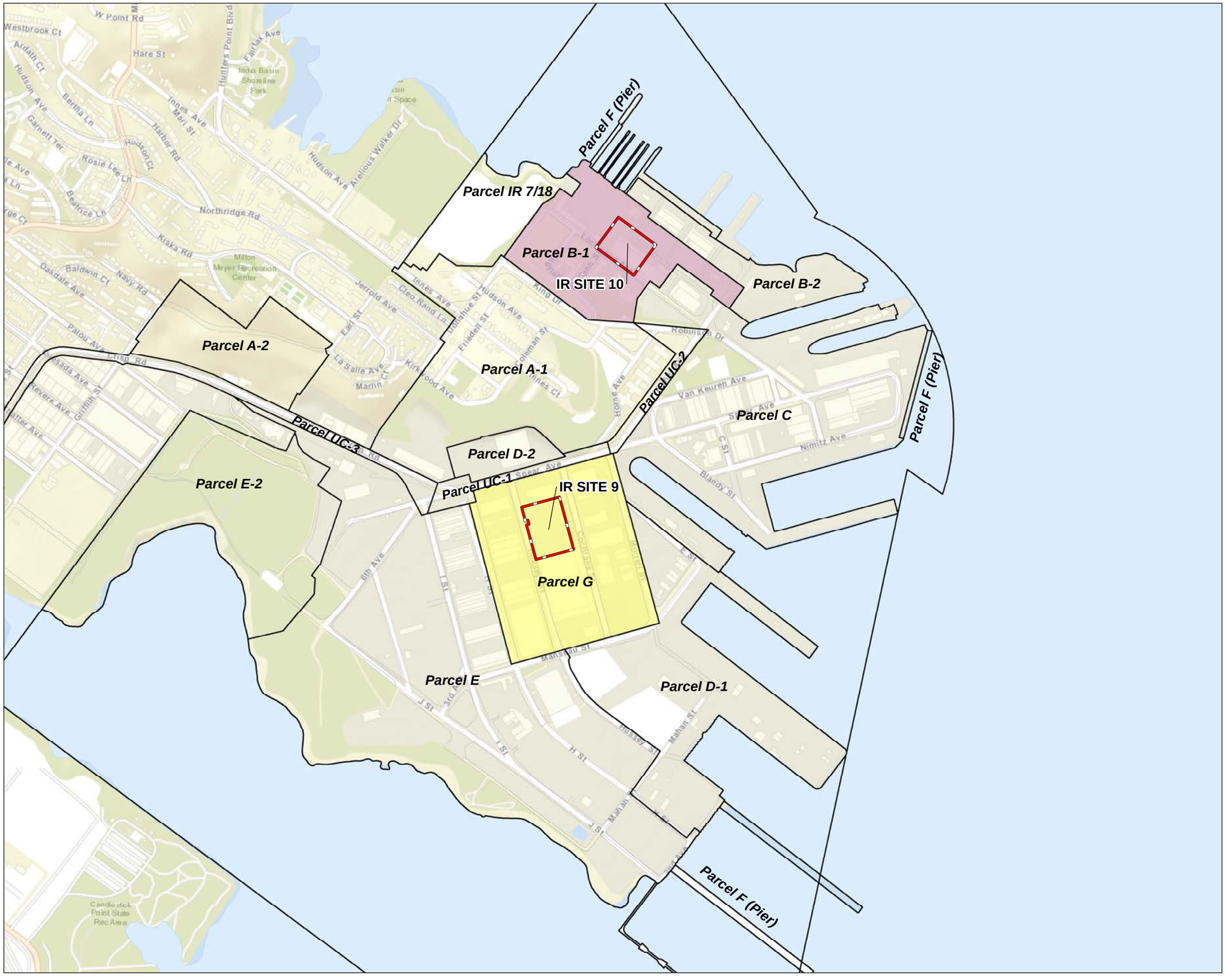
DOD (Department of Defense). 2017. *DoD Quality Systems Manual for Environmental Laboratories, Version 5.1.* January.

Navy (Department of the Navy). 2009a. *Final Record of Decision for Parcel G, Hunters Point Shipyard, San Francisco, California.* February 18.

_____. 2009b. *Navy Environmental Compliance Sampling and Field Testing Procedures Manual.* October.

Trevet. 2017. *Sampling and Analysis Plan for Per- and Polyfluoroalkyl Substances (PFAS) at IR Site 9 and IR Site 10, Hunters Point Naval Shipyard, San Francisco, California.* July.

EPA (U.S. Environmental Protection Agency). 2001. *Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.* January 19.



LEGEND

- PARCEL B-1
- PARCEL G
- IR SITE

NOTE:
PFAS = Per- and polyflourinated substances
IR - Installation Restoration

APPROXIMATE GRAPHIC SCALE
0 400 800 1600
(IN FEET)
1 INCH = 800 FEET

DEPARTMENT OF THE NAVY
SAN DIEGO, CALIFORNIA
NAVAL FACILITIES ENGINEERING COMMAND

PFAS IN GROUNDWATER IR SITE 9 AND 10
HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

FIGURE 1

SITE LOCATION MAP

TREVET

DATE: JUNE 2018

CONTRACT NO.: N62473-16-C-2004

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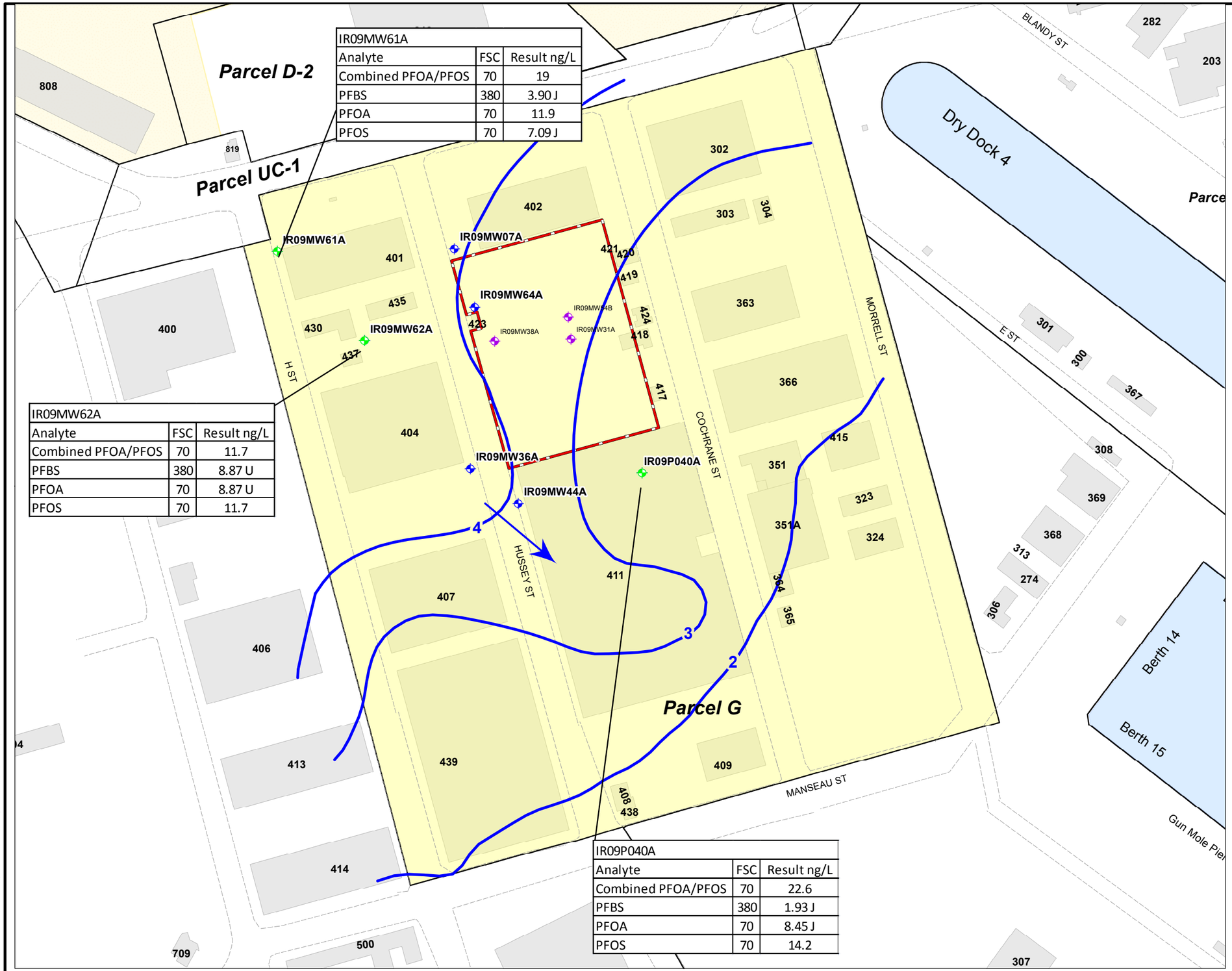
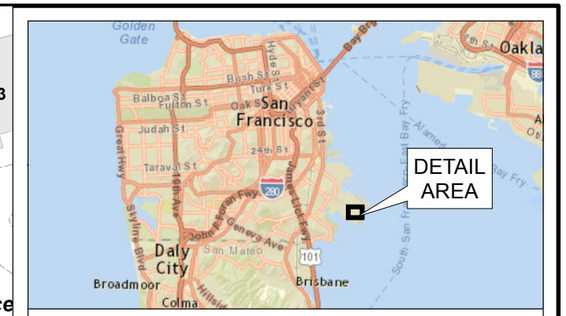


IR09MW61A		
Analyte	FSC	Result ng/L
Combined PFOA/PFOS	70	19
PFBS	380	3.90 J
PFOA	70	11.9
PFOS	70	7.09 J

IR09MW62A		
Analyte	FSC	Result ng/L
Combined PFOA/PFOS	70	11.7
PFBS	380	8.87 U
PFOA	70	8.87 U
PFOS	70	11.7

IR09P040A		
Analyte	FSC	Result ng/L
Combined PFOA/PFOS	70	22.6
PFBS	380	1.93 J
PFOA	70	8.45 J
PFOS	70	14.2



LEGEND

- Monitoring Wells Sampled for PFCs
- Recently Destroyed Monitoring Wells
- IR Site 9 Monitoring Wells
- IR Site 9
- Parcel G
- Buildings
- Non - Navy property
- San Francisco Bay
- A-Aquifer Water Level Elevation, May 2017 (Feet AMSL)
- Approximate Direction of Groundwater Flow in the A-Aquifer

NOTE:

PFAS = Per- and polyflourinated substances
ng/L - Nanogram per liter
J = Estimated concentration
U = non detected at or above the stated limit
AMSL - Above Mean Sea Level
IR - Installation Restoration
FSC - Federal Screening Criteria

N

APPROXIMATE GRAPHIC SCALE

0 100 200 400

(IN FEET)
1 INCH = 200 FEET

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PFAS IN GROUNDWATER IR SITE 9 AND 10
HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

FIGURE 2

PFAS RESULTS FOR IR SITE 9, PARCEL G

TREVET

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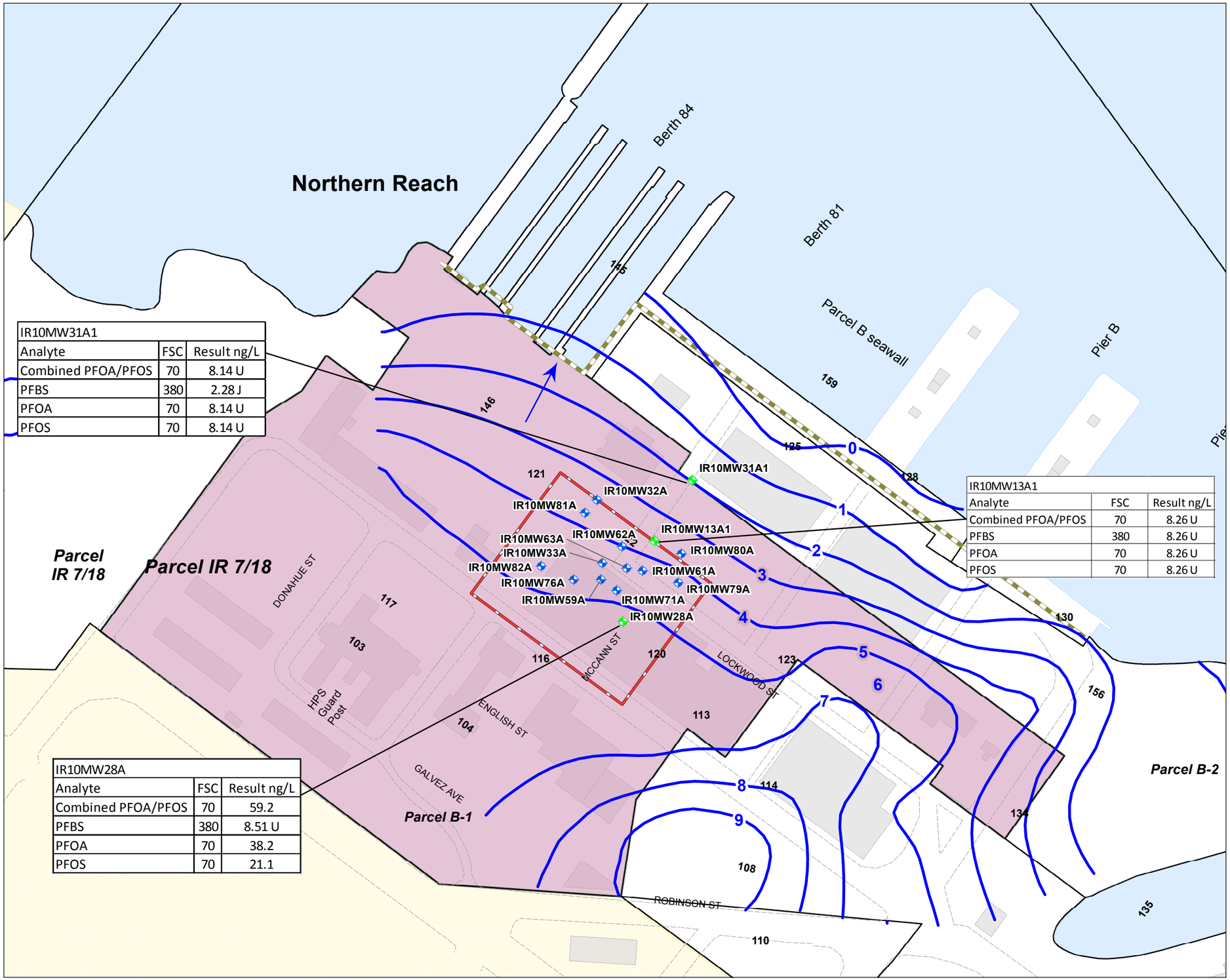

IR10MW31A1		
Analyte	FSC	Result ng/L
Combined PFOA/PFOS	70	8.14 U
PFBS	380	2.28 J
PFOA	70	8.14 U
PFOS	70	8.14 U

IR10MW13A1		
Analyte	FSC	Result ng/L
Combined PFOA/PFOS	70	8.26 U
PFBS	380	8.26 U
PFOA	70	8.26 U
PFOS	70	8.26 U

IR10MW28A		
Analyte	FSC	Result ng/L
Combined PFOA/PFOS	70	59.2
PFBS	380	8.51 U
PFOA	70	38.2
PFOS	70	21.1

LEGEND

- Monitoring Wells Sampled for PFCs
- IR Site 10 Monitoring Wells
- Parcel B seawall
- IR Site 10
- Parcel G
- Buildings
- Non - Navy property
- San Francisco Bay
- A-Aquifer Water Level Elevation, May 2017 (Feet AMSL)
- Approximate Direction of Groundwater Flow in the A-Aquifer

NOTE:

PFAS = Per- and polyflourinated substances
ng/L - Nanogram per liter
J = Estimated concentration
U = non detected at or above the stated limit
AMSL - Above Mean Sea Level
IR - Installation Restoration
FSC - Federal Screening Criteria

N

APPROXIMATE GRAPHIC SCALE
0 100 200 400
(IN FEET)
1 INCH = 200 FEET

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PFAS IN GROUNDWATER IR SITE 9 AND 10
HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

FIGURE 3

PFAS RESULTS FOR IR SITE 10, PARCEL B-1

TREVET

DATE: JUNE 2018

CONTRACT NO.: N62473-16-C-2004

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Table 1
Monitoring Well Construction Details
Hunters Point Naval Shipyard, San Francisco, California

Well ID	Parcel	Top of Casing (ft MSL)	Top of Screen (ft BTOC)	Bottom of Screen (ft BTOC)	Total Depth (ft BTOC)	Pump Intake (ft BTOC)
IR09MW61A	G	8.49	10.1	20.1	20.1	15
IR09MW62A	G	8.5	9.7	19.7	20	15
IR09P040A	G	9.05	10.4	15.4	15.8	12.5
IR10MW13A1	B-1	10.43	4.7	19.7	20.5	12
IR10MW28A	B-1	13.57	6.4	16.4	17	11.5
IR10MW31A1	B-2	10.34	6.8	16.8	17	12

Abbreviations:
ft BTOC: feet below top of casing
ft MSL: feet above mean sea level
IR: Installation Restoration

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Table 2
Installation Restoration 9 and 10
PFAS Groundwater Analytical Results, August 2017
Hunters Point Naval Shipyard, San Francisco, California

Well ID	Date	Type	EPA Method 537 Modified			
			Combined PFOA/PFOS	PFBS	PFOA	PFOS
Units			ng/L	ng/L	ng/L	ng/L
Federal Screening Criteria (FSC)			**70**	**380**	**70**	**70**
Installation Restoration 9						
IR09MW61A	8/2/2017	N	**19**	**3.90 J**	**11.9**	**7.09 J**
IR09MW62A	8/2/2017	N	**11.7**	8.87 U	8.87 U	**11.7**
IR09P040A	8/2/2017	N	**22.6**	**1.93 J**	**8.45 J**	**14.2**
Installation Restoration 10						
IR10MW13A1	8/2/2017	N	8.26 U	8.26 U	8.26 U	8.26 U
IR10MW28A	8/2/2017	N	**59.2**	8.51 U	**38.2**	**21.1**
IR10MW31A1	8/2/2017	N	8.14 U	**2.28 J**	8.14 U	8.14 U
IR10MW31A1	8/2/2017	FD	8.36 U	**2.95 J**	8.36 U	8.36 U
Quality Control Samples (QC)						
EQUIPMENT	8/2/2017	N	8.40 U	8.40 U	8.40 U	8.40 U
FIELD BLANK	8/2/2017	N	8.21 U	8.21 U	8.21 U	8.21 U
SOURCE BLANK	8/2/2017	N	8.40 U	8.40 U	8.40 U	8.40 U

NOTE: Detections are shown in **BOLD** type.

Footnotes:

ng/L = nanogram per liter

FD= Field Duplicate

N= original sample

U = not detected at or above the stated limit

J = Estimated concentration

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Attachment A

Field Sampling Protocols

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Attachment A

This attachment was prepared to provide a guideline for Field Sampling Protocols to avoid Cross-Contamination at Perfluorinated Compound (PFCs) Sites.

1. Prohibited and Acceptable Items for Sampling

PFCs are present in a wide variety of commercial products including common household items (fabric softeners, sunscreens, low density polyethylene containers, Gore-Tex, cosmetics, moisturizing lotions, etc.). Given the low detection limits associated with PFC analysis and the many potential sources of trace levels of PFCs field personnel will strictly adhere to the sampling equipment and protocols summarized in the table below.

Table 1: Summary of Prohibited and Acceptable Items for Sampling of PFCs

Prohibited Items	Acceptable Items
Field Equipment	
Teflon® containing materials	High-density polyethylene (HDPE) materials
Low density polyethylene (LDPE)	Acetate liners
Aluminum foil	Silicon tubing
Waterproof Field books	Loose paper (non-waterproof)
Plastic clipboards, binders, or spiral hard cover notebooks	Aluminum field clipboards or with Masonite
	Sharpies®, pens
Post-It Notes	
RE-usable Chemical (blue) ice packs	Regular ice in polyethylene bags (double bagged
Field Clothing and Personal Protective Equipment (PPE)	
New cotton clothing or synthetic water resistant, waterproof, or stain-treated clothing, clothing containing Gore-TexTM	Well-laundered clothing, defined as clothing that has been washed 6 or more times after purchase, made of natural fibers (preferable cotton)
Clothing laundered using fabric softener	No fabric softener
Boots containing Gore-TexTM	Boots made with polyurethane and polyvinyl chloride (PVC)
Tyvek®	Cotton Clothing
No cosmetics, moisturizers, hand cream, or other related products as part of personal cleaning/showering routine on the morning of sampling	Sunscreens - Alba Organics Natural Sunscreen, Yes To Cucumbers, Aubrey Organics, Jason Natural Sun Block, Kiss my face, Baby sunscreens that are “free” or “natural” Insect Repellents - Jason Natural Quit Bugging Me,

	Repel Lemon Eucalyptus Insect repellant, Herbal Armor, California Baby Natural Bug Spray, BabyGanics Sunscreen and insect repellant - Avon Skin So Soft Bug Guard Plus – SPF 30 Lotion
Sample Containers	
LDPE or glass containers	HDPE or polypropylene
Teflon®-lined caps	Unlined polypropylene caps
Rain Events	
Waterproof or resistant rain gear	Gazebo tent that is only touched or moved prior to and following sampling activities
Equipment Decontamination	
Decon 90	Alconox® and/or Liquinox®
Water from an on-site well	Potable water from municipal drinking water supply
Food Considerations	
All food and drink, with exceptions noted on the right	Bottled water and hydration drinks (i.e. Gatorade® and Powerade®) to be brought and consumed only in the staging area

2. Sampling Methodology

Trevet has adopted with minimal modifications sample handling and processing methods as presented in Appendix A of Government of Western Australia, Department of Environmental Regulation. 2016. *Interim Guideline on the Assessment and Management of Perfluoroalkyl Substances (PFAS), Contaminated Sites Guidelines.* February. The following is a summary:

1. Prior to sampling event, the sampling personnel must wash their hands with soap and rinse thoroughly in potable water before donning a clean, new pair of disposable nitrile gloves. A new pair of nitrile gloves must be worn for each sample collected. Additional hand washing prior to donning the new pair of gloves is necessary if the old pair of gloves was compromised or if the personnel's ungloved hands touched items that may represent potential PFAS contamination (refer Table 1) since last being washed.
2. Teflon®-coated materials and aluminum foil may not come into contact with the sample (refer Table 1). Sample handling equipment or tools made of HDPE or stainless steel are acceptable, provided they are decontaminated prior to use via scrubbing and rinsing thoroughly in potable water to clean away any debris or material and then triple-rinsed in distilled (Grade 3 or better) or deionized water (Millipore water).
3. Samples containers must be comprised of polypropylene or HDPE (refer Table 1). Glass containers with lined lids are prohibited. Prior to sampling, confirm sample container composition (polypropylene versus HDPE) with the selected analytical laboratory.

4. For each sample, the required minimum volume of surface water and groundwater is 250mL per USEPA 2009 (4) and the required minimum amount of soil or sediment is at least 2g on a dry weight basis per ASTM 2014. These sampling requirements may vary by laboratory. Prior to sampling, confirm sample size requirements with the selected analytical laboratory. *Sampling volume is determined by the analytical laboratory and should be adapted to expected PFOS levels and analytical capacities. The instrumental limit of detection is the main factor limiting the sensitivity and the volume should be enough to reach quantification levels.
5. For drinking water, each 250mL sample bottle ***may be*** required to contain a small amount (1.25g) of Trizma®, a buffering reagent that removes free chlorine from chlorinated drinking water (USEPA 2009), or similar sample additive as specified by the selected analytical laboratory. Prior to sampling drinking water for PFAS analysis, confirm the need for additive with the selected analytical laboratory and the USACE chemist.
6. During sample processing and storage, minimize the exposure of the sample to light.
7. The use of chemical or gel-based coolant products (e.g.BlueIce®) to maintain samples at 4°C following sample collection is prohibited. The acceptable alternative is ice which has been double-bagged (polyethylene plastic) and secured to avoid meltwater from contacting sample containers during overnight or same-day delivery to the analytical laboratory.
8. Table 1 should be reviewed to identify other products that may contaminate the sampling processing area. If in doubt about a particular product or item in contact with environmental media to be sampled or in close proximity to operations, collect and analyze a rinsate sample using laboratory-supplied PFAS-free water.
9. Support personnel that are within 2–3m of the processing area are considered subject to the same restrictions related to precautionary measures for clothing and food, as applied to sampling personnel.
10. Once collected, the samples will be properly preserved, packaged, placed on ice, and shipped under proper chain of custody procedures. The chain of custody (COC) forms will be completed by the sampler and will accompany the samples from the field to the lab.

References

USEPA Method 537: *Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), version 1.1, September 2009*. National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency.

Government of Western Australia, Department of Environmental Regulation. 2016. *Interim Guideline on the Assessment and Management of Perfluoroalkyl Substances (PFAS), Contaminated Sites Guidelines.* February.

Attachment B

Field Forms

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Low-Flow Purging and Sampling Log	Project: HPNS Job No.: A174	Well ID: IR09MW61A Date: 8/2/17

Sampling Personnel: EH/MS/DD

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: non-dedicated

Cycles per min: 4 Pressure: 15 PSI Recharge: 10 sec Discharge: 5 sec

WELL INFORMATION

PID Reading: 0.0 ppm

Depth to Water: 4.46 ft

Reference Point: TOC

Casing Diameter: 4 in

Total Depth: 20.1 ft

SAMPLE INFORMATION

Sample Depth: 15 ft Screen Interval: 10.1 - 20.1 ft

Purge Start Time: 0859

Sample Time: 1000 Sample ID: IR09MW61A-080217

QC Sample Type: NA QC Sample Time: —

QC Sample ID: —

PURGE LOG			***WATER QUALITY PARAMETERS***						
Time of Reading	Flow Rate (ml/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
0910	100	4.93	18.8	0.614	1.78	7.13	299.7	1.5	purged 1,000 mL
0915	100	5.02	18.7	0.616	1.64	7.31	289.2	1.6	clear, no odor
0920	100	5.03	18.8	0.617	1.54	7.41	278.4	1.3	
0925	100	5.08	18.9	0.618	1.47	7.48	268.9	1.3	
0930	100	5.12	18.9	0.619	1.42	7.52	259.2	1.5	
0935	100	5.13	18.9	0.621	1.38	7.56	251.4	1.3	
0940	100	5.14	18.9	0.622	1.36	7.59	245.9	1.2	
0945	100	5.16	18.8	0.623	1.33	7.61	239.4	1.1	
0950	100	5.17	18.8	0.625	1.31	7.62	235.0	1.1	
0955	100	5.18	18.8	0.626	1.29	7.63	231.2	1.0	OK to Sample (MS)

8/2/17

Sample Container	Preservative	Analysis Requested	Comments:
2-125 mL HDPE	NONE	PFAS/PFOA	

TREVET

Low-Flow Purging and Sampling Log	Project: HPNS Job No.: A174	Well ID: IR09MW62A Date: 08/02/2017

Sampling Personnel: EH/MS/DD

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: Sample Pro Bladder Pump

Cycles per min: 4 Pressure: 25 PSI Recharge: 10 sec Discharge: 5 sec

WELL INFORMATION

PID Reading: Ø Ø ppm

Depth to Water: 4.97 ft

Reference Point: TOC

Casing Diameter: 4 in

Total Depth: 20.0 ft

SAMPLE INFORMATION

Sample Depth: 15 ft Screen Interval: 9.7 - 19.7 ft

Purge Start Time: 1018

Sample Time: 1105 Sample ID: IR09MW62A-080217

QC Sample Type: MS/MSD QC Sample Time: 1105

QC Sample ID: IR09MW62A-080217

PURGE LOG			***WATER QUALITY PARAMETERS***						
Time of Reading	Flow Rate (ml/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1018	—	—	BEGIN PURGING			—		—	purge ~1,000 mL
1024	430	4.97	20.3	12.421	1.34	7.39	267.1	3.2	water clear + odorless
1027	430	4.97	20.3	12.162	1.21	7.42	242.4	26.7*	*Ø adjusted meter after
1030	430	4.97	20.4	11.519	1.08	7.44	225.2	40.7*	1043 reading, may have had air bubble lodged on turbidity probe
1033	430	4.97	20.4	10.437	0.98	7.48	211.8	54.2*	
1038	430	4.97	20.9	2.800	1.04	7.70	175.7	814*	
1043	430	4.97	21.1	1.797	1.12	7.59	170.2	88.1*	
1048	430	4.97	21.1	1.343	1.09	7.46	176.5	0.4	
1053	430	4.97	21.2	1.190	1.01	7.40	177.5	0.1	
1056	430	4.97	21.2	1.165	0.98	7.38	177.9	0.2	
1059	430	4.97	21.2	1.155	0.97	7.37	178.2	0.2	
1102	430	4.97	21.2	1.152	0.96	7.36	178.2	0.2	
				08-02-17					
		0		EOA					

Sample Container	Preservative	Analysis Requested	Comments:
2-125 mL HDPE	NONE	PFAS/PFOA	

TREVET

Low-Flow Purging and Sampling Log	Project: HPNS Job No.: A174	Well ID: IR09P040A Date: 08/02/2017

Sampling Personnel: EJH/MS/DD

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: Sample Pro Bladder Pump

Cycles per min: 4 Pressure: 20 PSI Recharge: 10 sec Discharge: 5 sec

WELL INFORMATION

PID Reading: Ø Ø ppm

Depth to Water: 8.33 ft

Reference Point: TOC

Casing Diameter: 2 - in

Total Depth: 15.8 ft

SAMPLE INFORMATION

Sample Depth: 12.5 ft Screen Interval: 10.4 - 15.4 ft

Purge Start Time: 1129

Sample Time: 1200 Sample ID: IR09P040A-080217

QC Sample Type: NA QC Sample Time: —

QC Sample ID: —

PURGE LOG			***WATER QUALITY PARAMETERS***						
Time of Reading	Flow Rate (ml/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1129	—	—	Begin Purging						purge ~1,000
1134	300	8.35	15.1	4939	1.80	7.41	259.5	5.9	water clear, no odor
1137	300	8.35	14.9	4491	1.62	7.32	249.0	2.9	
1140	300	8.35	14.8	4.173	1.60	7.26	243.2	2.1	
1143	300	8.35	14.8	4005	1.57	7.21	238.1	1.3	
1146	300	8.35	14.7	3.871	1.54	7.18	234.0	1.1	
1149	300	8.35	14.7	3747	1.53	7.17	230.0	1.3	
1152	300	8.35	14.8	3.640	1.50	7.16	226.6	1.0	
1155	300	8.35	14.8	3.627	1.49	7.15	223.0	0.7	
1158	300	8.35	14.8	3.607	1.49	7.15	219.5	0.6	
			08.02.2017						
			EJH						

Sample Container	Preservative	Analysis Requested	Comments:
2-125 mL HDPE	NONE	PFAS/PFOA	

TREVET

Low-Flow Purging ~~and Sampling Log~~ ⊛5 BV Purge	Project: HPNS Job No.: A174	Well ID: IR10MW13A1 Date: 08/01/2017

Sampling Personnel: JH / DD / MS

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: PERISTALTIC

Cycles per min: — Pressure: — PSI Recharge: — sec Discharge: — sec —

WELL INFORMATION	***SAMPLE INFORMATION***
PID Reading: NM ppm	Sample Depth: 12 ft — Screen Interval: 4.7-19.7 ft
Depth to Water: 7.35 ft	Purge Start Time: 0754
Reference Point: TOC	Sample Time: — — Sample ID: —
Casing Diameter: 4 in	QC Sample Type: NA — QC Sample Time: NA
Total Depth: 20.33 ft	QC Sample ID: NA

PURGE LOG			***WATER QUALITY PARAMETERS***						
Time of Reading	Flow Rate (~~ml~~ gal/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
0754	—	—	BEGIN PURGING	—	—	—	—	—	PER. PUMP PUMPING @
0815	0.80	7.52	20.0	4.67	—	6.53	—	0.5	MAX Q = 1g per 80 seconds
0840	0.80	7.54	21.9	4.87	—	7.62	—	0.5	~32 gallons
0906	0.80	7.53	23.0	4.79	—	7.72	—	0.4	~50 gallons
0920	0.80	7.53	22.1	4.79	—	7.77	—	0.5	~60 gallons
0946	0.80	7.54	22.0	4.78	—	7.77	—	0.5	~78 gallons
1005	0.80	7.53	22.1	4.75	—	7.80	—	0.5	~90 gallons
1011	—	PUMP	OFF	—	—	—	—	—	~98 gallons
									5 borehole volumes
									purged, let well
									recharge and
									then sample.

BOREHOLE VOLUME CALCULATIONS	**Comments:**
Borehole volume = $5.87[CD^2+P(BD^2-CD^2)](WD-GW)$	
CD =Casing Diameter	
P = porosity (assume 25% or 0.25)	
BD = borehole diameter (assume 10-inches or 0.833-feet)	
WD = well depth	
GW = depth to groundwater	
$BV = 5.87[0.33^2 + 0.25(0.83^2 - 0.33^2)](20.33 - 7.35)$	
$= 5.87(0.2539)(12.98)$	
1 BV = 19.3 gal	
5 BV = 96.7 gal.	

TREVET

Low-Flow Purging and Sampling Log	Project: HPNS Job No.: A174	Well ID: IR10MW13A1 Date: 08/02/2017

Sampling Personnel: EJH|MS|DD

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: Sample Pro Bladder Pump

Cycles per min: 4 Pressure: 20 PSI Recharge: 10 sec Discharge: 5 sec

WELL INFORMATION

PID Reading: 0.0 ppm

Depth to Water: 7.32 ft

Reference Point: TOC

Casing Diameter: 4 - in

Total Depth: 20.5 ft

SAMPLE INFORMATION

Sample Depth: 12 ft Screen Interval: 4.7-19.7 ft

Purge Start Time: ~~7.32~~ 1421 EJH

Sample Time: 1450 Sample ID: IR10MW13A1-080217

QC Sample Type: FB QC Sample Time: 1440

QC Sample ID: 080217-FB-01

PURGE LOG			***WATER QUALITY PARAMETERS***						
Time of Reading	Flow Rate (ml/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1421	—	—	BEGIN PURGING			—	—	—	Purge ~1,000 mL,
1425	420	7.35	22.4	4.220	1.37	7.58	49.1	~~2.0~~ 1.4	water clear, no odor
1428	420	7.35	22.3	4.185	0.99	7.58	-4.9	0.5	
1431	420	7.35	22.2	4.196	0.93	7.58	-46.5	0.4	
1434	420	7.35	22.2	4.205	0.91	7.58	-60.9	0.4	
1437	420	7.35	22.2	4.212	0.93	7.58	-73.3	0.8	
1440	420	7.35	22.2	4.238	0.89	7.58	-81.1	1.4	
1443	420	7.35	22.3	4.248	0.88	7.58	-84.0	1.4	
1446	420	7.35	22.3	4.275	0.87	7.58	-89.2	1.6	

08-02-17 EJH

Sample Container	Preservative	Analysis Requested	Comments:
2-125 mL HDPE	NONE	PFAS/PFOA	

TREVET

Low-Flow Purging and Sampling Log	Project: HPNS Job No.: A174	Well ID: IR10MW28A Date: 8-2-17

Sampling Personnel: MS / EH / DD

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: non-dedicated

Cycles per min: 4 Pressure: 10 PSI Recharge: 10 sec Discharge: 5 sec

WELL INFORMATION

PID Reading: 0.0 ppm

Depth to Water: 8.85 ft

Reference Point: TOC

Casing Diameter: 2 in

Total Depth: 17.0 ft

SAMPLE INFORMATION

Sample Depth: 11.5 ft Screen Interval: 6.4-16.4 ft

Purge Start Time: 1312

Sample Time: 1355 Sample ID: IR10MW28A-080217

QC Sample Type: – QC Sample Time: –

QC Sample ID: –

PURGE LOG			***WATER QUALITY PARAMETERS***						
Time of Reading	Flow Rate (ml/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1325	100	9.65	17.0	2.989	1.51	7.30	188.2	11.6	Purged 1,000 mL
1330	100	10.42	16.7	2.853	1.42	7.34	172.9	11.3	clear, no odor
1335	100	10.78	16.6	2.757	1.54	7.39	172.4	11.0	
1340	100	11.16	16.6	2.682	1.60	7.44	173.6	7.6	
1345	100	11.53	16.5	2.679	1.57	7.42	177.7	3.3	
1350	100	11.84	16.5	2.721	1.60	7.39	182.1	2.7	ok to sample MS

8-2-17

Sample Container	Preservative	Analysis Requested	Comments:
2-125 mL HDPE	NONE	PFAS/PFOA	

TREVET

Low-Flow Purging and Sampling Log

Project: HPNS
Job No.: A174

Well ID: IR10MW31A1 08/02/17
Date: ~~IR10MW31A1~~ eh

Sampling Personnel: ~~8/02/17~~ eh EH/MS/DD

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: Sample Pro Bladder Pump

Cycles per min: 4 Pressure: — PSI Recharge: 10 sec Discharge: 5 sec

WELL INFORMATION

PID Reading: 0.0 ppm

Depth to Water: ~~8.99~~ 8.91 ft

Reference Point: TOC

Casing Diameter: 4 in

Total Depth: 17.0 ft

SAMPLE INFORMATION

Sample Depth: ~~12~~ ~13 ft

Screen Interval: 6.8-16.8 ft

Purge Start Time: 1503

Sample Time: 1520

Sample ID: IR10MW31A1-080217

QC Sample Type: DUP

QC Sample Time: 1530

QC Sample ID: IR10MW31A1-080217-D

PURGE LOG			WATER QUALITY PARAMETERS						
Time of Reading	Flow Rate (ml/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1503	—	—	BEGIN PURGING			—	—	—	~1,000 mL, water clear
1507	~~8.99~~ 420	8.91	21.7	2.676	1.56	8.16	153.6	0.1	and no odor
1510	420	8.92	21.6	2.676	1.46	8.09	149.5	0.3	
1513	420	8.91	21.4	2.676	1.37	8.05	144.3	0.3	
1516	420	8.91	21.3	2.672	1.31	8.02	140.1	0.3	
1519	420	8.91	21.2	2.663	1.31	8.00	137.9	0.2	

8-2-17 EJH

Sample Container	Preservative	Analysis Requested	Comments:
2-125 mL HDPE	NONE	PFAS/PFOA	

TREVET

Low-Flow Purging ~~and Sampling Log~~ ⊕ 5 BV Purge	Project: HPNS Job No.: A174	Well ID: IR10MW31A1 Date: 08/01/2017

Sampling Personnel: EH | MS | DD

Stabilization Criteria: three consecutive readings measured every 3-5 min.: ±0.1 pH; ±3% conductivity; ±10% turbidity (if > 10 NTUs); ±0.3 mg/L DO; ±10 mV ORP; ±1 °C temp; flow rate of 100-500 ml/min; water level drawdown < 0.3 ft

If stabilization is not occurring and the procedure has been strictly followed, then sample collection can take place once three (minimum) to six (maximum) casing volumes have been removed.

PUMP IFORMATION Pump Type: PERISTALTIC PUMP

Cycles per min: — Pressure: — PSI Recharge: — sec Discharge: — sec

WELL INFORMATION

PID Reading: Ø ppm

Depth to Water: 8.82 ft

Reference Point: TOC

Casing Diameter: 4 in

Total Depth: 17.25 ft

SAMPLE INFORMATION

Sample Depth: 12 ft Screen Interval: 6.8-16.8 ft

Purge Start Time: 1141

Sample Time: — Sample ID: —

QC Sample Type: — QC Sample Time: —

QC Sample ID: —

PURGE LOG			***WATER QUALITY PARAMETERS***						
Time of Reading	Flow Rate (~~ml~~ gal/min)	GW Depth (ft)	Temp. (°C)	Cond. (mS/cm)	DO (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
~~1136~~ 1141	—								—
1151	0.5	9.91	22.0	2.63	—	8.39	—	0.3	Q = 0.5 gpm
1211	0.5	9.95	22.0	2.66	—	8.24	—	0.4	~18 gallons
1233	0.5	9.96	22.1	2.73	—	8.26	—	0.6	~30 gallons
1255	0.5	9.98	21.8	2.76	—	8.21	—	0.8	~42 gallons
1317	0.5	10.02	21.6	2.79	—	8.20	—	0.5	~55 gallons
1330	—	—	Pump	off	—	—	—	—	~66 gallons
									5 BV Purged; allow
									well to recharge
									before low flow purge

BOREHOLE VOLUME CALCULATIONS	**Comments:**
Borehole volume = $5.87[CD^2+P(BD^2-CD^2)](WD-GW)$	
CD =Casing Diameter	
P = porosity (assume 25% or 0.25)	
BD = borehole diameter (assume 10-inches or 0.833-feet)	
WD = well depth	
GW = depth to groundwater	
$BV = 5.87[0.33^2+0.25(0.83^2-0.33^2)](17.25-8.82)$	
$BV = 5.87(0.2539)(8.43)$	
1 BV = 12.5 gal	
5 BV = 62.8 gal	

TREVET

YSI Field Calibration Form

Field Date: 08/02/2017

Name: HPNS PFAS - EJA

Standard Value		Model # VSI-556		Model # —	
pH					
4.00	Exp. Date —	Initial	4.10	Initial	
		Final	4.00	Final	
7.00	Exp. Date —	Initial	7.10	Initial	
		Final	7.00	Final	
10.00	Exp. Date —	Initial	10.02	Initial	
		Final	10.00	Final	
Conductivity					
6.647	Exp. Date —	Initial	6.649	Initial	
		Final	6.647	Final	
ORP					
—	Exp. Date —	Initial		Initial	
		Final		Final	
DO					
100%	Exp. Date —	Initial	101.2 %	Initial	
		Final	100%	Final	

Comments:

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Attachment C

Analytical Data

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August 24, 2017

Vista Work Order No. 1700980

Ms. Jordana Bjorkman
Trevet Inc.
7220 Trade Street, Suite 300
San Diego, CA 92121

Dear Ms. Bjorkman,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on August 03, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'HPS GW Monitoring'.

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

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

Sincerely,

Karen J. Volpendesta for

Martha Maier
Laboratory Director

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

Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 www.vista-analytical.com

Vista Work Order No. 1700980
Case Narrative

Sample Condition on Receipt:

Ten water samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. As requested, this report was amended on August 24, 2017 to report a selected list of 14 PFAS plus combined PFOA/PFOS using Modified EPA Method 537

Analytical Notes:

Modified EPA Method 537

The samples were initially extracted and analyzed for PFBS, PFOA, and PFOS using Modified EPA Method 537. As requested, the samples were re-analyzed to report a selected list of 14 PFAS plus combined PFOA/PFOS using Modified EPA Method 537.

Holding Times

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

Quality Control

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

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

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

As requested, an MS/MSD was performed on sample "IR09MW62A-080217".

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1700980-01	IR09MW61A-080217	Modified EPA Method 537	13C2-PFDoA	H	39.3
1700980-01	IR09MW61A-080217	Modified EPA Method 537	13C2-PFTeDA	H	26.7
1700980-02	IR09MW62A-080217	Modified EPA Method 537	13C2-PFDoA	H	38.3
1700980-02	IR09MW62A-080217	Modified EPA Method 537	13C2-PFTeDA	H	38.3
1700980-03	IR09P040A-080217	Modified EPA Method 537	13C2-PFDoA	H	47.6
1700980-03	IR09P040A-080217	Modified EPA Method 537	13C2-PFTeDA	H	48.9
1700980-04	IR10MW28A-080217	Modified EPA Method 537	13C2-PFTeDA	H	46.7
1700980-05	080217-FB-01	Modified EPA Method 537	13C2-PFDoA	H	35.1
1700980-05	080217-FB-01	Modified EPA Method 537	13C2-PFTeDA	H	34.7
1700980-06	IR10MW13A1-080217	Modified EPA Method 537	13C2-PFDoA	H	22.9
1700980-06	IR10MW13A1-080217	Modified EPA Method 537	13C2-PFTeDA	H	20.3
1700980-07	IR10MW31A1-080217	Modified EPA Method 537	13C2-PFDoA	H	39.4
1700980-07	IR10MW31A1-080217	Modified EPA Method 537	13C2-PFTeDA	H	20.6
1700980-08	IR10MW31A1-080217-D	Modified EPA Method 537	13C2-PFDoA	H	42.0
1700980-08	IR10MW31A1-080217-D	Modified EPA Method 537	13C2-PFTeDA	H	9.50
1700980-09	080217-ER-01	Modified EPA Method 537	13C2-PFTeDA	H	14.2
1700980-10	080217-SB-01	Modified EPA Method 537	13C2-PFDoA	H	37.1
1700980-10	080217-SB-01	Modified EPA Method 537	13C2-PFTeDA	H	15.6
B7H0035-BLK1	B7H0035-BLK1	Modified EPA Method 537	13C2-PFDoA	H	33.3
B7H0035-BLK1	B7H0035-BLK1	Modified EPA Method 537	13C2-PFTeDA	H	23.2
B7H0035-BS1	B7H0035-BS1	Modified EPA Method 537	13C2-PFDoA	H	32.5
B7H0035-MS1	B7H0035-MS1	Modified EPA Method 537	13C2-PFDoA	H	26.6
B7H0035-MS1	B7H0035-MS1	Modified EPA Method 537	13C2-PFTeDA	H	41.9
B7H0035-MSD1	B7H0035-MSD1	Modified EPA Method 537	13C2-PFDoA	H	40.3

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700980-01	IR09MW61A-080217		02-Aug-17 10:00	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-02	IR09MW62A-080217	MS/MSD	02-Aug-17 11:05	03-Aug-17 09:55	HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
1700980-03	IR09P040A-080217		02-Aug-17 12:00	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-04	IR10MW28A-080217		02-Aug-17 13:55	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-05	080217-FB-01		02-Aug-17 14:40	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-06	IR10MW13A1-080217		02-Aug-17 14:50	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-07	IR10MW31A1-080217		02-Aug-17 15:20	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-08	IR10MW31A1-080217-D		02-Aug-17 15:30	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-09	080217-ER-01		02-Aug-17 16:00	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL
1700980-10	080217-SB-01		02-Aug-17 16:05	03-Aug-17 09:55	HDPE Bottle, 125 mL
					HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank

Modified EPA Method 537

Matrix: Aqueous
Sample Size: 0.125 L

QC Batch: B7H0035
Date Extracted: 07-Aug-2017 8:24

Lab Sample: B7H0035-BLK1
Date Analyzed: 15-Aug-17 18:43 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.79	5.00	8.00	
PFHxA	ND	2.18	5.00	8.00	
PFHpA	ND	0.591	5.00	8.00	
PFHxS	ND	0.947	5.00	8.00	
PFOA	ND	0.651	5.00	8.00	
PFOS	ND	0.807	5.00	8.00	
PFNA	ND	0.810	5.00	8.00	
PFDA	ND	1.49	5.00	8.00	
MeFOSAA	ND	1.65	5.00	8.00	
PFUnA	ND	1.05	5.00	8.00	
EtFOSAA	ND	1.37	5.00	8.00	
PFDoA	ND	0.792	5.00	8.00	
PFTrDA	ND	0.494	5.00	8.00	
PFTeDA	ND	0.755	5.00	8.00	
Combined PFOA/PFOS	ND	0.807	5.00	8.00	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	91.6	50 - 150	
IS	13C2-PFHxA	82.0	50 - 150	
IS	13C4-PFHpA	62.0	50 - 150	
IS	18O2-PFHxS	75.7	50 - 150	
IS	13C2-PFOA	79.0	50 - 150	
IS	13C8-PFOS	81.1	50 - 150	
IS	13C5-PFNA	73.9	50 - 150	
IS	13C2-PFDA	92.0	50 - 150	
IS	d3-MeFOSAA	85.4	50 - 150	
IS	13C2-PFUnA	73.6	50 - 150	
IS	d5-EtFOSAA	73.0	50 - 150	
IS	13C2-PFDoA	33.3	50 - 150	H
IS	13C2-PFTeDA	23.2	50 - 150	H

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

Sample ID: OPR

Modified EPA Method 537

Matrix:	Aqueous	QC Batch:	B7H0035	Lab Sample:	B7H0035-BS1
Sample Size:	0.125 L	Date Extracted:	07-Aug-2017 8:24	Date Analyzed:	15-Aug-17 18:22 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits
PFBS	86.6	80.0	108	70 - 130
PFHxA	86.6	80.0	108	70 - 130
PFHpA	87.2	80.0	109	70 - 130
PFHxS	77.1	80.0	96.4	70 - 130
PFOA	82.9	80.0	104	70 - 130
PFOS	82.0	80.0	102	70 - 130
PFNA	89.7	80.0	112	70 - 130
PFDA	86.3	80.0	108	70 - 130
MeFOSAA	80.8	80.0	101	70 - 130
PFUnA	80.0	80.0	100	70 - 130
EtFOSAA	73.8	80.0	92.2	70 - 130
PFDoA	87.6	80.0	109	70 - 130
PFTrDA	99.4	80.0	124	60 - 130
PFTeDA	76.9	80.0	96.1	70 - 130

	Labeled Standard	%R	LCL-UCL
IS	13C3-PFBS	106	50 - 150
IS	13C2-PFHxA	97.8	50 - 150
IS	13C4-PFHpA	71.9	50 - 150
IS	18O2-PFHxS	99.2	50 - 150
IS	13C2-PFOA	91.0	50 - 150
IS	13C8-PFOS	94.1	50 - 150
IS	13C5-PFNA	80.8	50 - 150
IS	13C2-PFDA	85.7	50 - 150
IS	d3-MeFOSAA	79.4	50 - 150
IS	13C2-PFUnA	68.1	50 - 150
IS	d5-EtFOSAA	59.7	50 - 150
IS	13C2-PFDoA	32.5	50 - 150
IS	13C2-PFTeDA	53.3	50 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: IR09MW61A-080217

Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 10:00
Location:

Sample Data

Matrix: Water
Sample Size: 0.107 L

Laboratory Data

Lab Sample: 1700980-01 Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 15-Aug-17 19:16 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	3.90	2.08	5.84	9.31	J
PFHxA	26.8	2.54	5.84	9.31	
PFHpA	9.23	0.688	5.84	9.31	J
PFHxS	27.0	1.10	5.84	9.31	
PFOA	11.9	0.757	5.84	9.31	
PFOS	7.09	0.939	5.84	9.31	J
PFNA	ND	0.942	5.84	9.31	
PFDA	ND	1.73	5.84	9.31	
MeFOSAA	ND	1.92	5.84	9.31	
PFUnA	ND	1.22	5.84	9.31	
EtFOSAA	ND	1.59	5.84	9.31	
PFDoA	ND	0.921	5.84	9.31	
PFTrDA	ND	0.575	5.84	9.31	
PFTeDA	ND	0.878	5.84	9.31	
Combined PFOA/PFOS	19.0	0.939	5.84	9.31	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	106	50 - 150	
IS	13C2-PFHxA	87.0	50 - 150	
IS	13C4-PFHpA	67.1	50 - 150	
IS	18O2-PFHxS	91.2	50 - 150	
IS	13C2-PFOA	88.5	50 - 150	
IS	13C8-PFOS	98.8	50 - 150	
IS	13C5-PFNA	83.9	50 - 150	
IS	13C2-PFDA	78.7	50 - 150	
IS	d3-MeFOSAA	83.2	50 - 150	
IS	13C2-PFUnA	95.5	50 - 150	
IS	d5-EtFOSAA	76.3	50 - 150	
IS	13C2-PFDoA	39.3	50 - 150	H
IS	13C2-PFTeDA	26.7	50 - 150	H

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

Sample ID: IR09MW62A-080217

Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 11:05
Location:

Sample Data

Matrix: Water
Sample Size: 0.113 L

Laboratory Data

Lab Sample: 1700980-02 Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 15-Aug-17 19:27 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.99	5.53	8.87	
PFHxA	ND	2.42	5.53	8.87	
PFHpA	ND	0.655	5.53	8.87	
PFHxS	6.52	1.05	5.53	8.87	J
PFOA	ND	0.722	5.53	8.87	
PFOS	11.7	0.895	5.53	8.87	
PFNA	ND	0.898	5.53	8.87	
PFDA	ND	1.65	5.53	8.87	
MeFOSAA	ND	1.83	5.53	8.87	
PFUnA	ND	1.16	5.53	8.87	
EtFOSAA	ND	1.52	5.53	8.87	
PFDoA	ND	0.878	5.53	8.87	
PFTrDA	ND	0.548	5.53	8.87	
PFTeDA	ND	0.837	5.53	8.87	
Combined PFOA/PFOS	11.7	0.895	5.53	8.87	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	101	50 - 150	
IS	13C2-PFHxA	90.8	50 - 150	
IS	13C4-PFHpA	63.5	50 - 150	
IS	18O2-PFHxS	95.2	50 - 150	
IS	13C2-PFOA	89.3	50 - 150	
IS	13C8-PFOS	92.1	50 - 150	
IS	13C5-PFNA	80.8	50 - 150	
IS	13C2-PFDA	76.3	50 - 150	
IS	d3-MeFOSAA	68.1	50 - 150	
IS	13C2-PFUnA	75.6	50 - 150	
IS	d5-EtFOSAA	56.6	50 - 150	
IS	13C2-PFDoA	38.3	50 - 150	H
IS	13C2-PFTeDA	38.3	50 - 150	H

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

Matrix Spike Results

Modified EPA Method 537

Source Client ID: IR09MW62A-080217
Source LabNumber: 1700980-02
Matrix: Aqueous
Sample Size: 0.115/0.118 L

QC Batch: B7H0035
Date Extracted: 07-Aug-2017 8:24

Lab Sample: B7H0035-MS1/B7H0035-MSD1
Date Analyzed: 15-Aug-17 18:54 Column: BEH C18
15-Aug-17 19:05 Column: BEH C18

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	RPD	MSD Qual.	%R Limit	%RPD Limit
PFBS	86.9	105		84.7	103	1.92		70 - 130	25
PFHxA	86.9	107		84.7	110	2.76		70 - 130	25
PFHpA	86.9	101		84.7	103	1.96		70 - 130	25
PFHxS	86.9	86.1		84.7	94.2	8.99		70 - 130	25
PFOA	86.9	118		84.7	108	8.85		70 - 130	25
PFOS	86.9	100		84.7	103	2.96		70 - 130	25
PFNA	86.9	114		84.7	113	0.881		70 - 130	25
PFDA	86.9	107		84.7	112	4.57		70 - 130	25
MeFOSAA	86.9	99.7		84.7	105	5.18		70 - 130	25
PFUnA	86.9	99.7		84.7	93.8	6.10		70 - 130	25
EtFOSAA	86.9	106		84.7	109	2.79		70 - 130	25
PFDoA	86.9	94.7		84.7	102	7.42		70 - 130	25
PFTrDA	86.9	71.4		84.7	74.6	4.38		60 - 130	25
PFTeDA	86.9	97.8		84.7	95.0	2.90		70 - 130	25

	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
IS	13C3-PFBS	109		105	
IS	13C2-PFHxA	95.5		94.0	
IS	13C4-PFHpA	72.3		69.2	
IS	18O2-PFHxS	98.1		93.7	
IS	13C2-PFOA	84.5		91.7	
IS	13C8-PFOS	89.4		96.4	
IS	13C5-PFNA	78.7		81.5	
IS	13C2-PFDA	82.0		77.2	
IS	d3-MeFOSAA	70.4		77.5	
IS	13C2-PFUnA	71.9		91.0	
IS	d5-EtFOSAA	57.7		62.9	
IS	13C2-PFDoA	26.6	H	40.3	H
IS	13C2-PFTeDA	41.9	H	53.2	

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: IR09P040A-080217 — Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 12:00
Location:

Sample Data

Matrix: Water
Sample Size: 0.117 L

Laboratory Data

Lab Sample: 1700980-03 — Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 — Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 15-Aug-17 19:48 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	1.93	1.91	5.34	8.53	J
PFHxA	ND	2.32	5.34	8.53	
PFHpA	ND	0.630	5.34	8.53	
PFHxS	12.8	1.01	5.34	8.53	
PFOA	8.45	0.694	5.34	8.53	J
PFOS	14.2	0.861	5.34	8.53	
PFNA	ND	0.864	5.34	8.53	
PFDA	ND	1.59	5.34	8.53	
MeFOSAA	ND	1.76	5.34	8.53	
PFUnA	ND	1.12	5.34	8.53	
EtFOSAA	ND	1.46	5.34	8.53	
PFDoA	ND	0.845	5.34	8.53	
PFTrDA	ND	0.527	5.34	8.53	
PFTeDA	ND	0.805	5.34	8.53	
Combined PFOA/PFOS	22.6	0.861	5.34	8.53	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	119	50 - 150	
IS	13C2-PFHxA	108	50 - 150	
IS	13C4-PFHpA	79.2	50 - 150	
IS	18O2-PFHxS	103	50 - 150	
IS	13C2-PFOA	106	50 - 150	
IS	13C8-PFOS	106	50 - 150	
IS	13C5-PFNA	90.2	50 - 150	
IS	13C2-PFDA	94.4	50 - 150	
IS	d3-MeFOSAA	103	50 - 150	
IS	13C2-PFUnA	99.5	50 - 150	
IS	d5-EtFOSAA	80.8	50 - 150	
IS	13C2-PFDoA	47.6	50 - 150	H
IS	13C2-PFTeDA	48.9	50 - 150	H

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

Sample ID: IR10MW28A-080217

Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 13:55
Location:

Sample Data

Matrix: Water
Sample Size: 0.118 L

Laboratory Data

Lab Sample: 1700980-04 Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 15-Aug-17 19:59 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.90	5.30	8.51	
PFHxA	37.6	2.32	5.30	8.51	
PFHpA	8.79	0.629	5.30	8.51	
PFHxS	7.79	1.01	5.30	8.51	J
PFOA	38.2	0.693	5.30	8.51	
PFOS	21.1	0.859	5.30	8.51	
PFNA	0.935	0.862	5.30	8.51	J
PFDA	2.01	1.59	5.30	8.51	J
MeFOSAA	ND	1.76	5.30	8.51	
PFUnA	ND	1.12	5.30	8.51	
EtFOSAA	ND	1.46	5.30	8.51	
PFDoA	ND	0.843	5.30	8.51	
PFTrDA	ND	0.526	5.30	8.51	
PFTeDA	ND	0.803	5.30	8.51	
Combined PFOA/PFOS	59.2	0.859	5.30	8.51	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	107	50 - 150	
IS	13C2-PFHxA	92.2	50 - 150	
IS	13C4-PFHpA	69.7	50 - 150	
IS	18O2-PFHxS	94.7	50 - 150	
IS	13C2-PFOA	88.6	50 - 150	
IS	13C8-PFOS	98.1	50 - 150	
IS	13C5-PFNA	87.8	50 - 150	
IS	13C2-PFDA	78.7	50 - 150	
IS	d3-MeFOSAA	69.2	50 - 150	
IS	13C2-PFUnA	77.8	50 - 150	
IS	d5-EtFOSAA	67.4	50 - 150	
IS	13C2-PFDoA	53.1	50 - 150	
IS	13C2-PFTeDA	46.7	50 - 150	H

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

Sample ID: 080217-FB-01

Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 14:40
Location:

Sample Data

Matrix: Water
Sample Size: 0.122 L

Laboratory Data

Lab Sample: 1700980-05 Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 15-Aug-17 20:10 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.84	5.12	8.21	
PFHxA	ND	2.24	5.12	8.21	
PFHpA	ND	0.606	5.12	8.21	
PFHxS	ND	0.972	5.12	8.21	
PFOA	ND	0.668	5.12	8.21	
PFOS	ND	0.828	5.12	8.21	
PFNA	ND	0.831	5.12	8.21	
PFDA	ND	1.53	5.12	8.21	
MeFOSAA	ND	1.69	5.12	8.21	
PFUnA	ND	1.08	5.12	8.21	
EtFOSAA	ND	1.41	5.12	8.21	
PFDoA	ND	0.813	5.12	8.21	
PFTrDA	ND	0.507	5.12	8.21	
PFTeDA	ND	0.775	5.12	8.21	
Combined PFOA/PFOS	ND	0.828	5.12	8.21	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	113	50 - 150	
IS	13C2-PFHxA	97.5	50 - 150	
IS	13C4-PFHpA	78.2	50 - 150	
IS	18O2-PFHxS	94.5	50 - 150	
IS	13C2-PFOA	89.8	50 - 150	
IS	13C8-PFOS	95.9	50 - 150	
IS	13C5-PFNA	86.9	50 - 150	
IS	13C2-PFDA	86.8	50 - 150	
IS	d3-MeFOSAA	84.8	50 - 150	
IS	13C2-PFUnA	71.8	50 - 150	
IS	d5-EtFOSAA	68.6	50 - 150	
IS	13C2-PFDoA	35.1	50 - 150	H
IS	13C2-PFTeDA	34.7	50 - 150	H

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

Sample ID: IR10MW13A1-080217

Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 14:50
Location:

Sample Data

Matrix: Water
Sample Size: 0.121 L

Laboratory Data

Lab Sample: 1700980-06 Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 15-Aug-17 20:20 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.85	5.17	8.26	
PFHxA	ND	2.25	5.17	8.26	
PFHpA	ND	0.610	5.17	8.26	
PFHxS	3.20	0.978	5.17	8.26	J
PFOA	ND	0.672	5.17	8.26	
PFOS	ND	0.833	5.17	8.26	
PFNA	ND	0.837	5.17	8.26	
PFDA	ND	1.54	5.17	8.26	
MeFOSAA	ND	1.70	5.17	8.26	
PFUnA	ND	1.08	5.17	8.26	
EtFOSAA	ND	1.41	5.17	8.26	
PFDoA	ND	0.818	5.17	8.26	
PFTrDA	ND	0.510	5.17	8.26	
PFTeDA	ND	0.780	5.17	8.26	
Combined PFOA/PFOS	ND	0.833	5.17	8.26	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	93.3	50 - 150	
IS	13C2-PFHxA	86.5	50 - 150	
IS	13C4-PFHpA	62.0	50 - 150	
IS	18O2-PFHxS	91.5	50 - 150	
IS	13C2-PFOA	86.2	50 - 150	
IS	13C8-PFOS	93.6	50 - 150	
IS	13C5-PFNA	86.4	50 - 150	
IS	13C2-PFDA	90.1	50 - 150	
IS	d3-MeFOSAA	62.5	50 - 150	
IS	13C2-PFUnA	65.1	50 - 150	
IS	d5-EtFOSAA	52.7	50 - 150	
IS	13C2-PFDoA	22.9	50 - 150	H
IS	13C2-PFTeDA	20.3	50 - 150	H

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

Sample ID: IR10MW31A1-080217

Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 15:20
Location:

Sample Data

Matrix: Water
Sample Size: 0.123 L

Laboratory Data

Lab Sample: 1700980-07 Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 22-Aug-17 22:16 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	2.28	1.82	5.08	8.14	J
PFHxA	ND	2.22	5.08	8.14	
PFHpA	ND	0.602	5.08	8.14	
PFHxS	1.26	0.964	5.08	8.14	J
PFOA	ND	0.663	5.08	8.14	
PFOS	ND	0.822	5.08	8.14	
PFNA	ND	0.825	5.08	8.14	
PFDA	ND	1.52	5.08	8.14	
MeFOSAA	ND	1.68	5.08	8.14	
PFUnA	ND	1.07	5.08	8.14	
EtFOSAA	ND	1.39	5.08	8.14	
PFDoA	ND	0.806	5.08	8.14	
PFTrDA	ND	0.503	5.08	8.14	
PFTeDA	ND	0.769	5.08	8.14	
Combined PFOA/PFOS	ND	0.822	5.08	8.14	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	114	50 - 150	
IS	13C2-PFHxA	87.8	50 - 150	
IS	13C4-PFHpA	83.6	50 - 150	
IS	18O2-PFHxS	92.4	50 - 150	
IS	13C2-PFOA	88.5	50 - 150	
IS	13C8-PFOS	91.1	50 - 150	
IS	13C5-PFNA	84.5	50 - 150	
IS	13C2-PFDA	82.4	50 - 150	
IS	d3-MeFOSAA	77.3	50 - 150	
IS	13C2-PFUnA	77.7	50 - 150	
IS	d5-EtFOSAA	61.0	50 - 150	
IS	13C2-PFDoA	39.4	50 - 150	H
IS	13C2-PFTeDA	20.6	50 - 150	H

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

Sample ID: IR10MW31A1-080217-D

Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 15:30
Location:

Sample Data

Matrix: Water
Sample Size: 0.120 L

Laboratory Data

Lab Sample: 1700980-08 Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 22-Aug-17 22:27 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	2.95	1.87	5.21	8.36	J
PFHxA	ND	2.28	5.21	8.36	
PFHpA	ND	0.617	5.21	8.36	
PFHxS	1.19	0.989	5.21	8.36	J
PFOA	ND	0.680	5.21	8.36	
PFOS	ND	0.843	5.21	8.36	
PFNA	ND	0.846	5.21	8.36	
PFDA	ND	1.56	5.21	8.36	
MeFOSAA	ND	1.72	5.21	8.36	
PFUnA	ND	1.10	5.21	8.36	
EtFOSAA	ND	1.43	5.21	8.36	
PFDoA	ND	0.827	5.21	8.36	
PFTrDA	ND	0.516	5.21	8.36	
PFTeDA	ND	0.789	5.21	8.36	
Combined PFOA/PFOS	ND	0.843	5.21	8.36	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	102	50 - 150	
IS	13C2-PFHxA	87.4	50 - 150	
IS	13C4-PFHpA	80.3	50 - 150	
IS	18O2-PFHxS	76.0	50 - 150	
IS	13C2-PFOA	83.8	50 - 150	
IS	13C8-PFOS	83.5	50 - 150	
IS	13C5-PFNA	80.4	50 - 150	
IS	13C2-PFDA	74.0	50 - 150	
IS	d3-MeFOSAA	79.4	50 - 150	
IS	13C2-PFUnA	74.9	50 - 150	
IS	d5-EtFOSAA	67.4	50 - 150	
IS	13C2-PFDoA	42.0	50 - 150	H
IS	13C2-PFTeDA	9.50	50 - 150	H

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

Sample ID: 080217-ER-01 — Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 16:00
Location:

Sample Data

Matrix: Water
Sample Size: 0.119 L

Laboratory Data

Lab Sample: 1700980-09 — Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 — Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 22-Aug-17 22:38 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.88	5.25	8.40	
PFHxA	ND	2.29	5.25	8.40	
PFHpA	ND	0.620	5.25	8.40	
PFHxS	ND	0.994	5.25	8.40	
PFOA	ND	0.683	5.25	8.40	
PFOS	ND	0.847	5.25	8.40	
PFNA	ND	0.850	5.25	8.40	
PFDA	ND	1.56	5.25	8.40	
MeFOSAA	ND	1.73	5.25	8.40	
PFUnA	ND	1.10	5.25	8.40	
EtFOSAA	ND	1.44	5.25	8.40	
PFDoA	ND	0.831	5.25	8.40	
PFTrDA	ND	0.518	5.25	8.40	
PFTeDA	ND	0.792	5.25	8.40	
Combined PFOA/PFOS	ND	0.847	5.25	8.40	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	108	50 - 150	
IS	13C2-PFHxA	91.9	50 - 150	
IS	13C4-PFHpA	83.3	50 - 150	
IS	18O2-PFHxS	91.4	50 - 150	
IS	13C2-PFOA	89.9	50 - 150	
IS	13C8-PFOS	86.1	50 - 150	
IS	13C5-PFNA	81.8	50 - 150	
IS	13C2-PFDA	87.7	50 - 150	
IS	d3-MeFOSAA	77.9	50 - 150	
IS	13C2-PFUnA	79.9	50 - 150	
IS	d5-EtFOSAA	68.3	50 - 150	
IS	13C2-PFDoA	53.4	50 - 150	
IS	13C2-PFTeDA	14.2	50 - 150	H

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

Sample ID: 080217-SB-01 — Modified EPA Method 537

Client Data

Name: Trevet Inc.
Project: HPS GW Monitoring
Date Collected: 02-Aug-2017 16:05
Location:

Sample Data

Matrix: Water
Sample Size: 0.119 L

Laboratory Data

Lab Sample: 1700980-10 — Date Received: 03-Aug-2017 9:55
QC Batch: B7H0035 — Date Extracted: 07-Aug-2017 8:24
Date Analyzed: 22-Aug-17 22:48 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.88	5.25	8.40	
PFHxA	ND	2.29	5.25	8.40	
PFHpA	ND	0.620	5.25	8.40	
PFHxS	ND	0.994	5.25	8.40	
PFOA	ND	0.683	5.25	8.40	
PFOS	ND	0.847	5.25	8.40	
PFNA	ND	0.850	5.25	8.40	
PFDA	ND	1.56	5.25	8.40	
MeFOSAA	ND	1.73	5.25	8.40	
PFUnA	ND	1.10	5.25	8.40	
EtFOSAA	ND	1.44	5.25	8.40	
PFDoA	ND	0.831	5.25	8.40	
PFTrDA	ND	0.519	5.25	8.40	
PFTeDA	ND	0.792	5.25	8.40	
Combined PFOA/PFOS	ND	0.847	5.25	8.40	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	106	50 - 150	
IS	13C2-PFHxA	88.1	50 - 150	
IS	13C4-PFHpA	77.3	50 - 150	
IS	18O2-PFHxS	90.3	50 - 150	
IS	13C2-PFOA	86.8	50 - 150	
IS	13C8-PFOS	80.0	50 - 150	
IS	13C5-PFNA	78.2	50 - 150	
IS	13C2-PFDA	65.8	50 - 150	
IS	d3-MeFOSAA	66.0	50 - 150	
IS	13C2-PFUnA	70.5	50 - 150	
IS	d5-EtFOSAA	59.0	50 - 150	
IS	13C2-PFDoA	37.1	50 - 150	H
IS	13C2-PFTeDA	15.6	50 - 150	H

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

NELAP Accredited Test Methods

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

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

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

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

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

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

TREVET
7220 Trade St, Suite 300
San Diego, CA, 92121

COC NUMBER _____

CHAIN-OF-CUSTODY RECORD

1700980, 0.5°C

PROJECT NAME	PURCHASE ORDER NO.
HPS GW Monitoring	--
PROJECT LOCATION	PROJECT NO.
Hunters Point Naval Shipyard	N62473-16-C-2004 (A174)
SAMPLER NAME: ERIN HUNTER, MEGAN STRANSKY, DAVID DORSEY	AIRBILL NUMBER
PROJECT CONTACT: Jordana Bjorkman - Trevet	PROJECT CONTACT PHONE NUMBER: (619) 602-0399

LABORATORY NAME: VISTA ANALYTICAL (916) 995-5171

LABORATORY ID (FOR LABORATORY)

ANALYSES REQUIRED

SAMPLE ID	DATE COLLECTED	TIME COLLECTED	NO. OF CONTAINER	Stage 2b	Stage 4	TYPE	TAT	PFAS (US EPA 537 MOD)	COMMENTS
IR09MW61A-080217	8/2/17	1000	2	X		w	10	X	
IR09MW62A-080217		1105	6	X		w	10	X	ms/msd
IR09PD40A-080217		1200	2		X	w	10	X	
IR10MW28A-080217		1355	2	X		w	10	X	
080217-FB-01		1440	2	X		w	10	X	
IR10MW13A1-080217		1450	2	X		w	10	X	
IR10MW31A1-080217		1520	2	X		w	10	X	
IR10MW31A1-080217-D		1530	2	X		w	10	X	
080217-ER-01		1600	2	X		w	10	X	
080217-SB-01		1605	2	X		w	10	X	

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/2/17	[signature]
COMPANY: TREVET, INC	TIME: 1615	COMPANY: VAL
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY

8/3/17
1056

SAMPLING COMMENT:

SAMPLE CONDITION UPON RECEIPT (FOR LABORATORY)
TEMPERATURE: _____ SAMPLE CONDITION: INTACT BROKEN
COOLER SEAL: INTACT BROKEN

Vista Analytical Laboratory

Sample Log-in Checklist

Vista Work Order #: 1700980 **TAT** 10

Samples Arrival:	**Date/Time** 08/03/17 0955	**Initials:** SR	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 08/03/17 1603	**Initials:** SR	**Location:** WR-2 **Shelf/Rack:** E5

Delivered By:	FedEx	UPS	On Trac	GSO	DHL	Hand Delivered	Other
Preservation:	Ice		Blue Ice		Dry Ice		None

Temp °C: 0.4 (uncorrected)	**Time:** 1054	**Thermometer ID:** IR-1
Temp °C: 0.5 (corrected)	**Probe used:** Yes☐ No☒	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact? ⊛ Custody seal used inside cooler on plastic bag			✓
Shipping Documentation Present?	✓		
Airbill Trk # 7873 8972 4950	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	✓

If Chlorinated or Drinking Water Samples, Acceptable Preservation?						✓
Preservation Documented:	$Na_2S_2O_3$	Trizma	None	Yes	No	NA
Shipping Container	Vista	Client	Retain	Return	Dispose	

Comments:

EXTRACTION INFORMATION

Process Sheet

Workorder: 1700980

RUSH!

Prep Expiration: 2017-Aug-16

Client: Trevet Inc.

Workorder Due: 17-Aug-17 00:00

TAT: 14

Method: **537M PFAS DOD (LOQ as mRL)**

Matrix: **Aqueous**

Client Matrix: Water

Prep Batch: B7H0035

Prep Data Entered: KBF 8/8/17

Date and Initials

Version: PFOA, PFOS, and PFBS only

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700980-01 "A"	☑	IR09MW61A-080217	03-Aug-17 09:55	WR-2 E-5	
1700980-02 "ABL"	☑	IR09MW62A-080217	03-Aug-17 09:55	WR-2 E-5	**MS/MSD**
1700980-03 "A"	☑	IR09PO40A-080217	03-Aug-17 09:55	WR-2 E-5	
1700980-04	☑	IR10MW28A-080217	03-Aug-17 09:55	WR-2 E-5	
1700980-05	☑	080217-FB-01	03-Aug-17 09:55	WR-2 E-5	
1700980-06	☑	IR10MW13A1-080217	03-Aug-17 09:55	WR-2 E-5	
1700980-07	☑	IR10MW31A1-080217	03-Aug-17 09:55	WR-2 E-5	
1700980-08	☑	IR10MW31A1-080217-D	03-Aug-17 09:55	WR-2 E-5	
1700980-09	☑	080217-ER-01	03-Aug-17 09:55	WR-2 E-5	
1700980-10	☑	080217-SB-01	03-Aug-17 09:55	WR-2 E-5	

Vista PM: Martha Maier

Vial Box ID: Not Alone

Sample Reconciled By: AB 8/7/17 / /

Page 1 of 1

Batch: B7H0035

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1700980-01	0.10744 ✓	NA	NA	1000	07-Aug-17 08:24	BAP	NA	NA	Water	537M PFAS DOD (LOQ as
1700980-02	0.11271 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-02	0.11271 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS
1700980-03	0.11721 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-04	0.1175 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-05	0.12184 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-06	0.12103 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-07	0.12279 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-08	0.11964 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-09	0.11911 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700980-10	0.11909 ✓			1000	07-Aug-17 08:24	BAP			Water	537M PFAS DOD (LOQ as
1700982-01	0.1093 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
1700982-02	0.11548 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
1700982-03	0.11269 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
1700982-04	0.11866 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
1700982-05	0.11108 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
1700982-06	0.10444 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
1700982-07	0.11703 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
1700982-08	0.12024 ✓			1000	07-Aug-17 08:24	BAP			Groundwater	537M PFAS
B7H0035-BLK1	0.125			1000	07-Aug-17 08:24	BAP			NA	QC
B7H0035-BS1	0.125			1000	07-Aug-17 08:24	BAP	17G2428 ✓	10 ✓		QC
B7H0035-MS1	0.11511 ✓			1000	07-Aug-17 08:24	BAP	17G2428 ✓	10 ✓		QC
B7H0035-MSD1	0.11806 ✓			1000	07-Aug-17 08:24	BAP	17G2428 ✓	10 ✓		QC

KBF 8/8/17

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS

Method: 537M PFAS DOD (LOO as mRL)

B7H0035

Chemist: BP

Prep Date/Time: 07-Aug-17 08:24

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☐	B7H0035-BLK1 (B)	5	2	0	2	NA	NA	(0.125)	✓ BP INJ (MJT) 8-7-17	KBF 8/7/17	BP 8-8-17
☐	B7H0035-BS1	5	2	0	2	↓	↓	(0.125)	✓ BP INJ 8/7/17		
☐	B7H0035-MS1 1700980-02	6	2	0	3	~~145.97~~ BP 8-7-17 141.96	26.85	0.11511	✓ BP INJ 8/7/17		
☐	B7H0035-MSD1 1700980-02	6	2	0	3	144.81	26.75	0.11806	✓		
☐	1700980-01	5	2	0	2	134.30	26.86	0.10744			
☐	1700980-02	6	2	0	3	139.81	~~27.09~~ 27.10 KBF 8/8/17	0.11271			
☐	1700980-03	6	2	0	3	144.10	26.89	0.11721			
☐	1700980-04	6	2	0	3	144.26	26.76	0.11750			
☐	1700980-05	5	2	0	2	148.71	26.87	0.12184			
☐	1700980-06	5	2	0	3	147.88	26.85	0.12103			
☐	1700980-07	6	2	0	3	149.67	26.88	0.12279			
☐	1700980-08	6	2	0	3	146.53	26.89	0.11964			
☐	1700980-09	5	2	0	2	145.99	26.88	0.11911			
☐	1700980-10	5	2	0	2	145.99	26.90	0.11909			
☐	1700982-01 (A)	6	2	0	3	136.37	27.07	0.10930			
☐	1700982-02 (A)	6	2	0	3	142.32	26.84	0.11548			

IS Name: 1761307, 10uL (V3)

NS Name: 1762428, 10u (V5)

RS Name: (VH) 17H0108, 10uL

SPE Chem: Strata-X-AW - 33um 200mg 6mL

Ele SOLV: MeOH/0.5% NH4OH in MeOH

Final Volume(s): 1mL

Check Out: Chemist/Date: HB 8/7/17

Check In: Chemist/Date: empty

Balance ID: HRMS-8

pH Adjusted: Chemist/Date: HB 8/7/17

Comments: Assume 1 g = 1 mL (A) Sample was centrifuged to remove particulate. HB 8/7/17
(B) BLK, BS1, MS1 witnessed by INJ INJ 8/7/17

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS

Method: 537M PFAS DOD (LOO as mRL)

B7H0035

Chemist: BP

Prep Date/Time: 07-Aug-17 08:24

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☐	1700982-03 (A)	6	2	0	3	139.94	27.25	0.11269	BP JMOT 8.7.17	KBF 8/7/17	BP 8.7.17
☐	1700982-04	6	2	0	3	145.82	27.16	0.11866			
☐	1700982-05 (A)	5	2	0	3	138.09	27.01	0.11108			
☐	1700982-06 (A)	6	2	0	3	131.49	27.05	0.10444			
☐	1700982-07 (A)	6	2	0	3	144.15	27.12	0.11703			
☐	1700982-08	5	2	0	2	147.27	27.03	0.12024			

(A) sample was centrifuged to remove particulate HB 8/7/17

IS Name (V3) 17G1307, 10mL

NS Name (V5) 17G2428, 10mL

RS Name (V4) 17H0108, 10mL

SPE Chem: Strata-X-AW 33um 200mg/6mL

Ele SOLV: MeOH/0.5% NH4OH in MeOH

Final Volume(s) 1mL

Check Out: Chemist/Date: HB 8/7/17

Check In: Chemist/Date: empty

Balance ID: HRMS-8

pH Adjusted: Chemist/Date: HB 8/7/17

Comments: Assume 1 g = 1 mL

SAMPLE DATA – MODIFIED EPA METHOD 537

Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:22:41 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7		4.79e3	0.125		3.06				
2	4	PFHxA	313.2 > 268.9		1.59e4	0.125		3.14				
3	5	PFHpA	363 > 318.9		3.79e4	0.125		3.40				
4	6	PFHxS	398.9 > 79.6	7.88e0	3.00e3	0.125		3.58	3.49	0.0328	0.705	
5	8	PFOA	413 > 368.7		4.52e4	0.125		3.71				
6	10	PFNA	462.9 > 418.8		4.06e4	0.125		3.75				
7	12	PFOS	499 > 79.9		7.27e3	0.125		3.96				
8	13	PFDA	513 > 468.8		3.78e4	0.125		3.96				
9	15	N-MeFOSAA	570.1 > 419		5.24e3	0.125		4.11				
10	16	N-EtFOSAA	584.2 > 419		4.59e3	0.125		4.18				
11	17	PFUnA	562.9 > 518.9		2.12e4	0.125		4.12				
12	19	PFDoA	612.9 > 318.8		1.09e3	0.125		4.28				

AC 8/22/17

Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:23:11 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.09e3	0.125		4.45				
2	22	PFTeDA	712.9 > 668.8		4.91e3	0.125		4.66				
3	30	13C3-PFBS	302 > 98.8	4.79e3	6.36e4	0.125	0.033	2.94	2.92	0.377	91.6	91.6
4	31	13C2-PFHxA	315 > 269.8	1.59e4	6.36e4	0.125	0.304	3.14	3.15	1.25	32.8	82.0
5	32	13C4-PFHpA	367.2 > 321.8	3.79e4	6.36e4	0.125	0.384	3.40	3.41	2.98	62.0	62.0
6	33	18O2-PFHxS	403 > 102.6	3.00e3	9.50e3	0.125	0.417	3.47	3.48	3.95	75.7	75.7
7	35	13C2-PFOA	414.9 > 369.7	4.52e4	5.06e4	0.125	1.132	3.71	3.62	11.2	79.0	79.0
8	36	13C5-PFNA	468.2 > 422.9	4.06e4	5.81e4	0.125	0.946	3.75	3.79	8.74	73.9	73.9
9	38	13C8-PFOS	507 > 79.9	7.27e3	8.62e3	0.125	1.040	3.84	3.85	10.5	81.1	81.1
10	39	13C2-PFDA	515.1 > 469.9	3.78e4	4.23e4	0.125	0.971	3.96	3.97	11.2	92.0	92.0

AC 8/22/17

Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:23:25 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	5.24e3	2.66e4	0.125	0.018	3.99	4.00	2.47	1110	85.4
2	42	d5-N-EtFOSAA	589.3 > 419	4.59e3	2.66e4	0.125	0.018	4.06	4.07	2.16	949	73.0
3	43	13C2-PFUnA	565 > 519.8	2.12e4	2.66e4	0.125	1.085	4.12	4.14	9.98	73.6	73.6
4	44	13C2-PFDoA	615 > 569.7	1.09e3	2.66e4	0.125	0.123	4.29	4.30	0.512	33.3	33.3
5	46	13C2-PFTeDA	714.8 > 669.6	4.91e3	2.66e4	0.125	0.798	4.66	4.65	2.31	23.2	23.2
6	52	13C5-PFHxA	318 > 272.9	6.36e4	6.36e4	0.125	1.000	3.14	3.15	5.00	40.0	100.0
7	53	13C3-PFHxS	401.9 > 79.9	9.50e3	9.50e3	0.125	1.000	3.47	3.48	12.5	100	100.0
8	54	13C8-PFOA	421.3 > 376	5.06e4	5.06e4	0.125	1.000	3.71	3.62	12.5	100	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.81e4	5.81e4	0.125	1.000	3.79	3.80	12.5	100	100.0
10	56	13C4-PFOS	503 > 79.9	8.62e3	8.62e3	0.125	1.000	3.84	3.85	12.5	100	100.0
11	57	13C6-PFDA	519.1 > 473.7	4.23e4	4.23e4	0.125	1.000	3.95	3.97	12.5	100	100.0
12	58	13C7-PFUnA	570.1 > 524.8	2.66e4	2.66e4	0.125	1.000	4.12	4.14	12.5	100	100.0
13	59	Total PFBS	299 > 79.7	0.00e0	4.79e3	0.125		3.06		0.000		
14	60	Total PFHxS	398.9 > 79.6	7.88e0	3.00e3	0.125		3.58		0.0328	0.705	
15	61	Total PFOA	413 > 368.7	0.00e0	4.52e4	0.125		3.71		0.000		
16	62	Total PFOS	499 > 79.9	0.00e0	7.27e3	0.125		3.96		0.000		
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	5.24e3	0.125		4.11		0.000		
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	4.59e3	0.125		4.18		0.000		

AC 8/22/17

Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:22:41 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.49	7.877	2998.849	0.033	MM	0.7

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:22:41 Pacific Daylight Time

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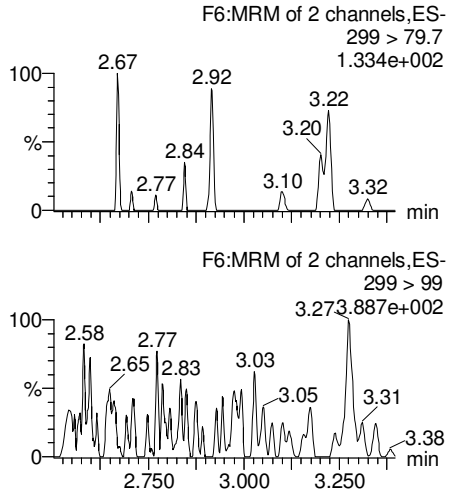
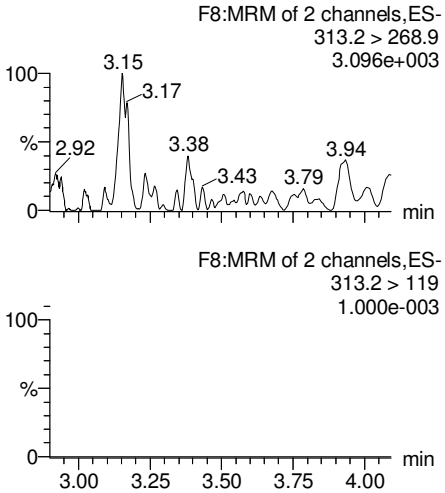
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

Total PFBS



PFHxA



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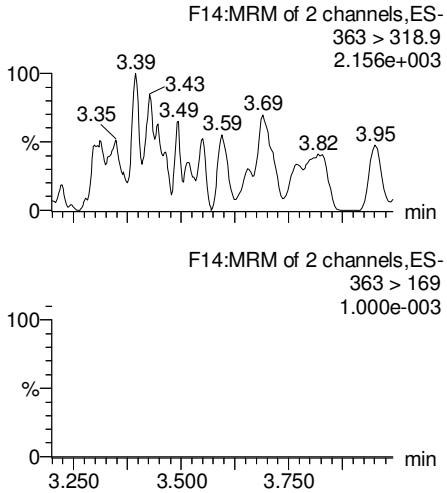
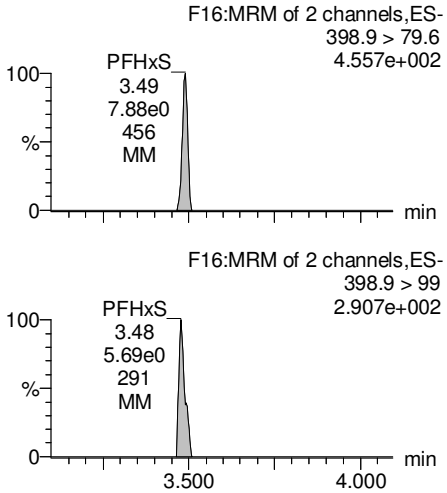
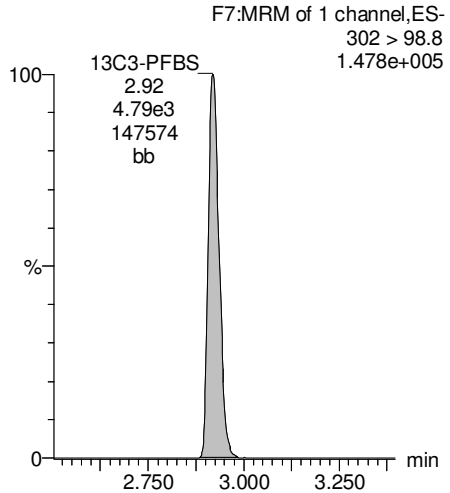


Total PFHxS



13C3-PFBS



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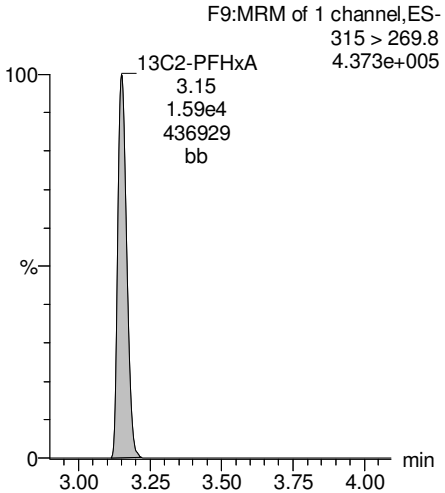

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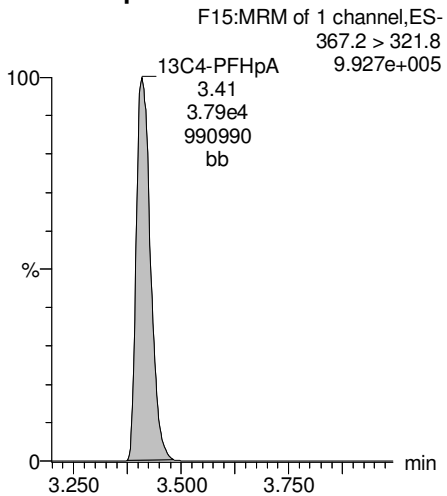
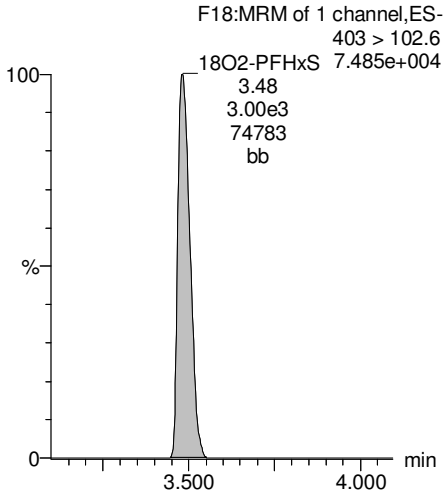


18O2-PFHxS



AC 8/22/17

Vista Analytical Laboratory

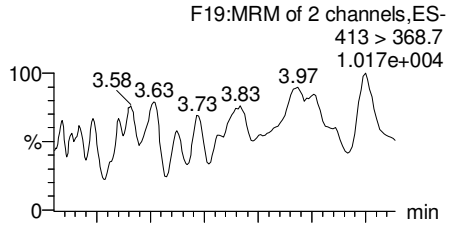
Revd: MM 8/23/17

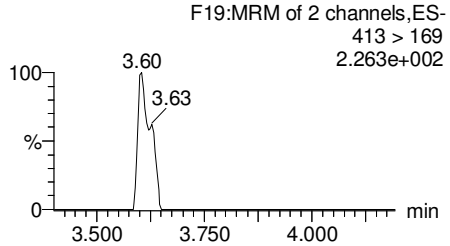
Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:22:41 Pacific Daylight Time

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

Total PFOA





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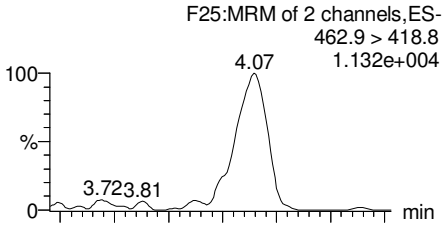

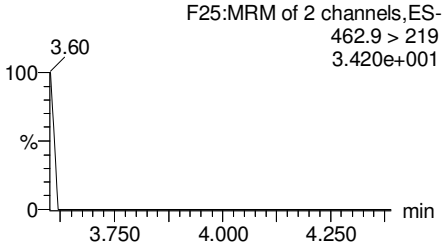

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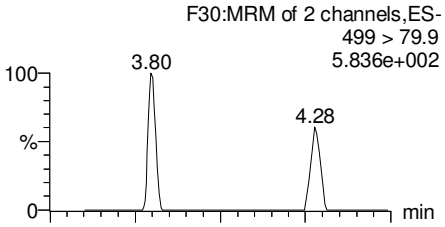

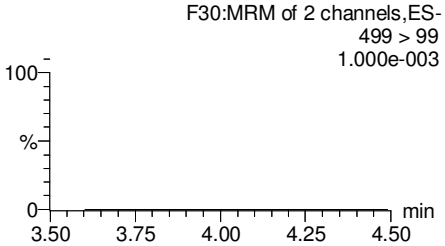

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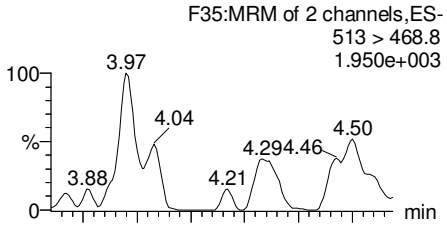
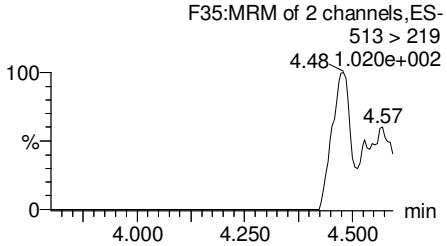
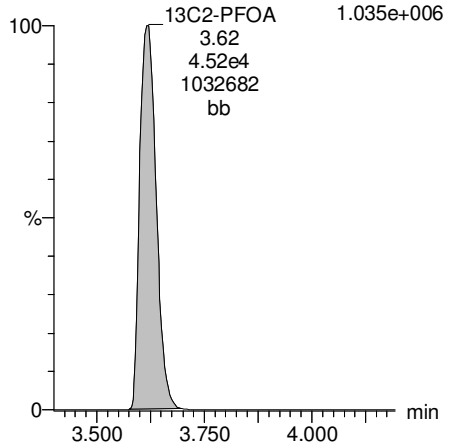




13C2-PFOA



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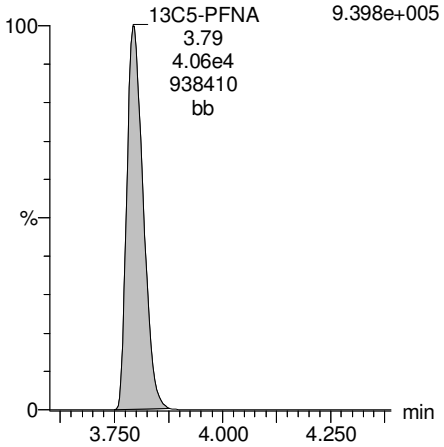

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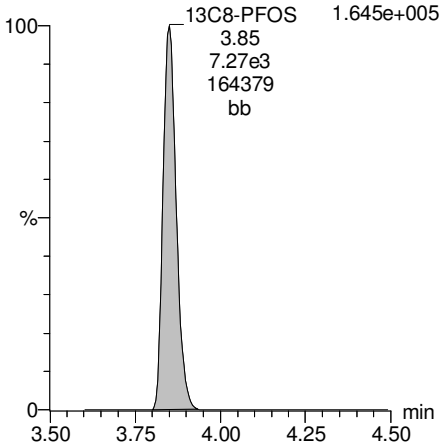

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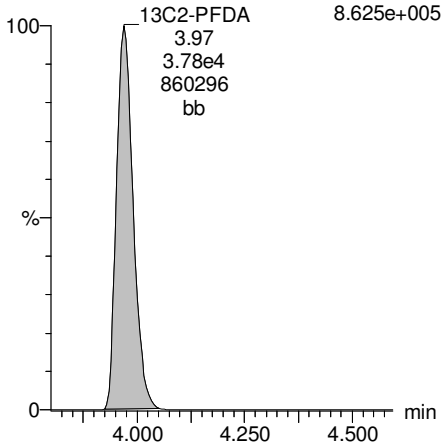

AC 8/22/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:22:41 Pacific Daylight Time

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

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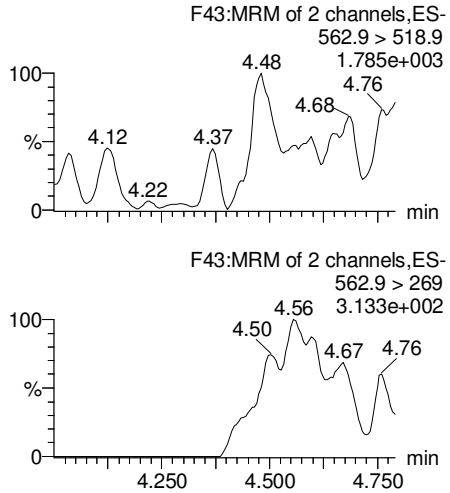

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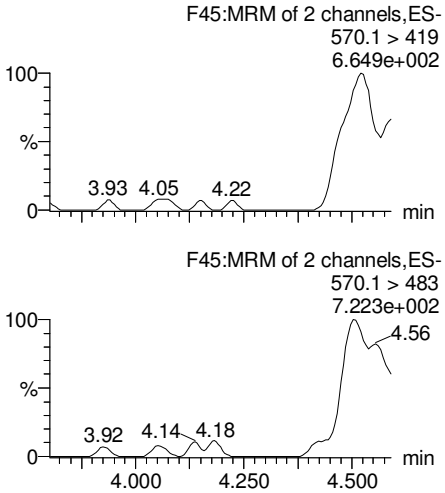

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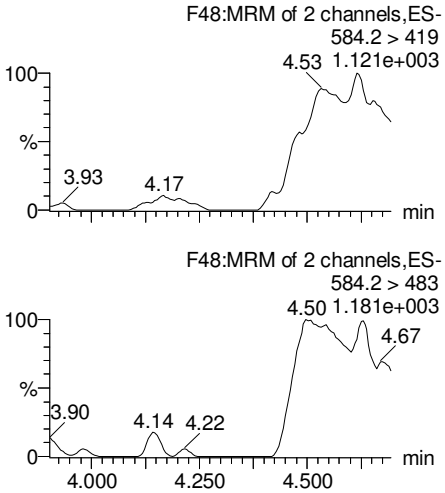

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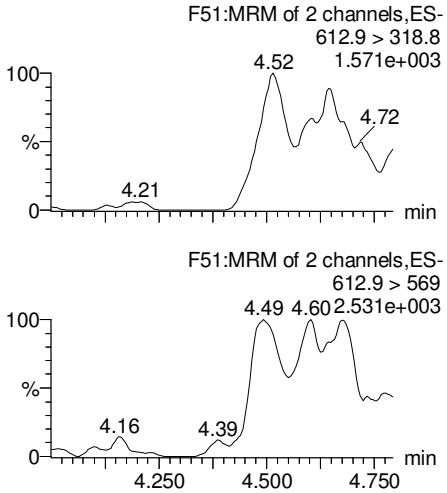

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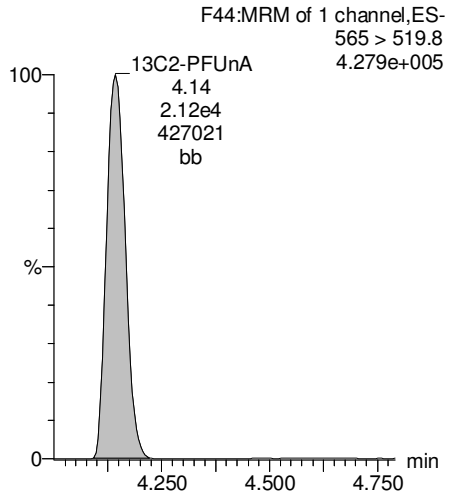
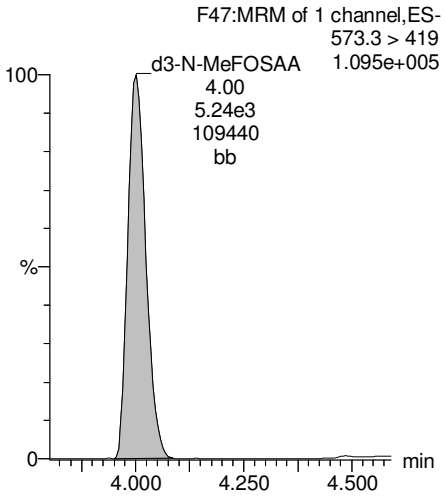


d3-N-MeFOSAA



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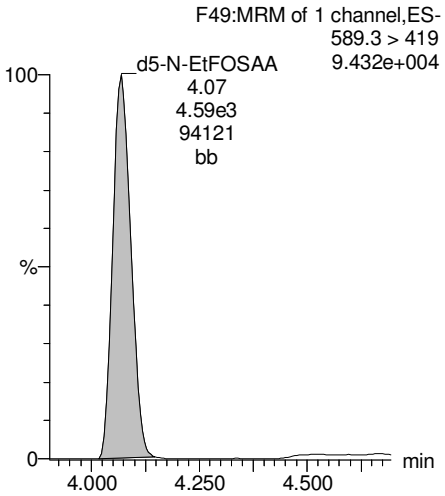
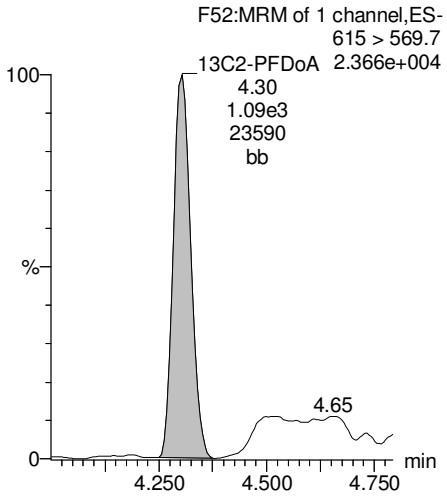


13C2-PFDoA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:22:41 Pacific Daylight Time

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

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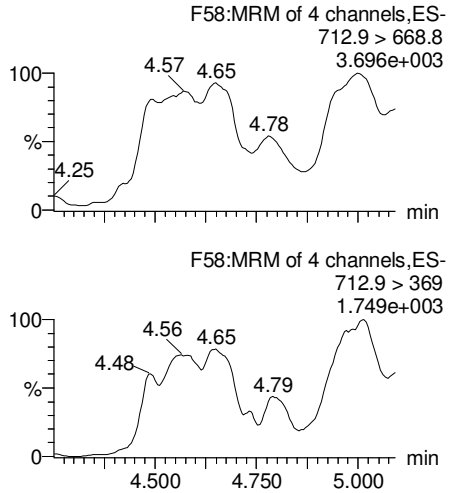
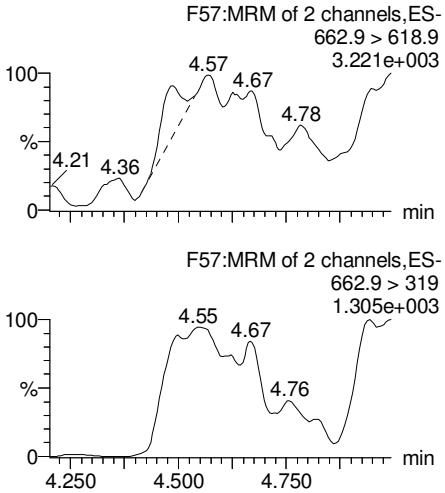
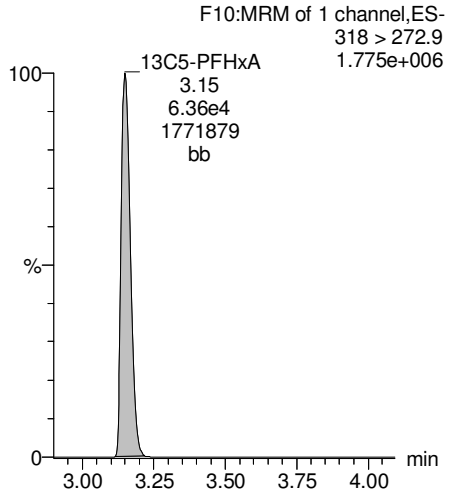


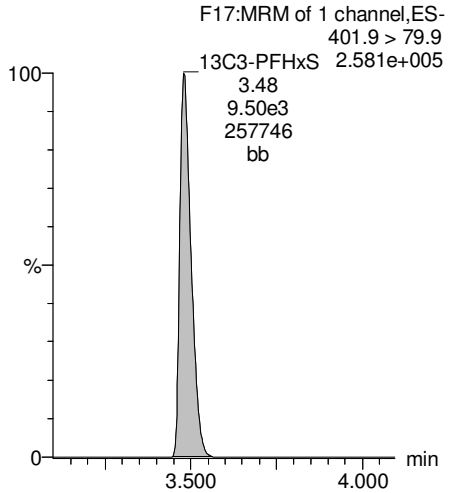
PFTrDA



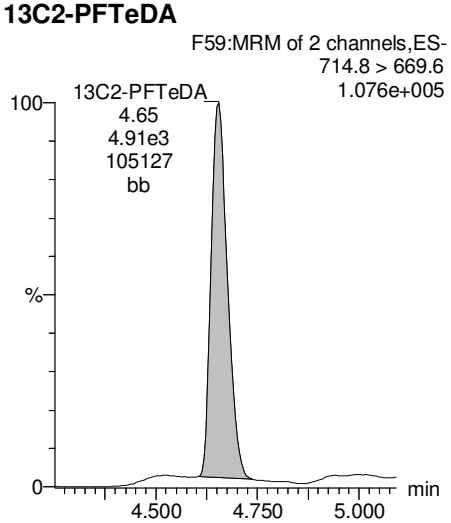
13C5-PFHxA



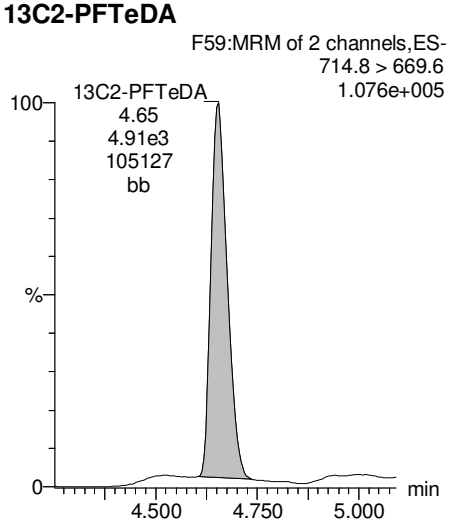
13C3-PFHxS



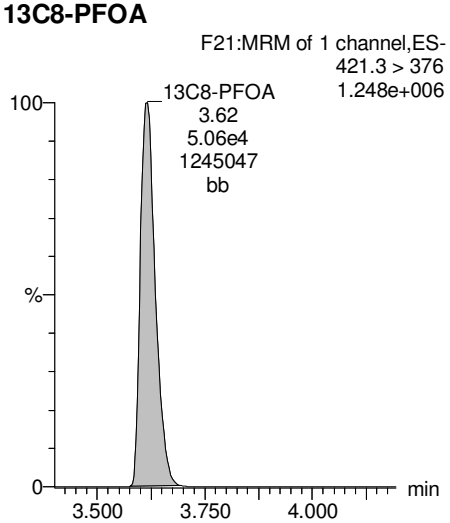
13C2-PFTeDA



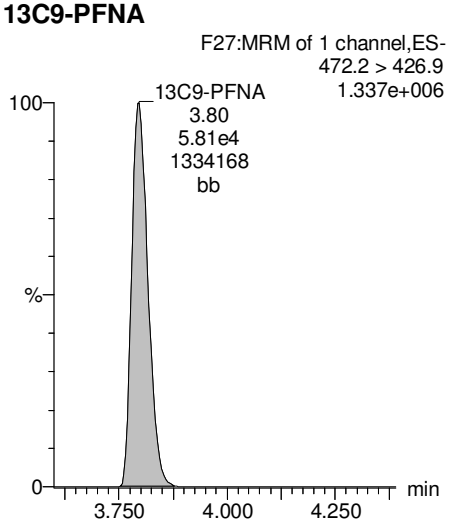
13C2-PFTeDA



13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

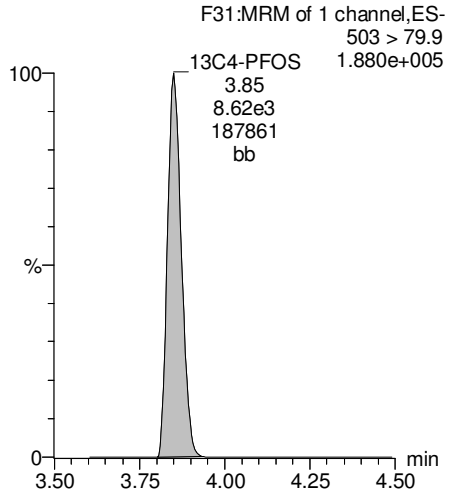
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-31.qld

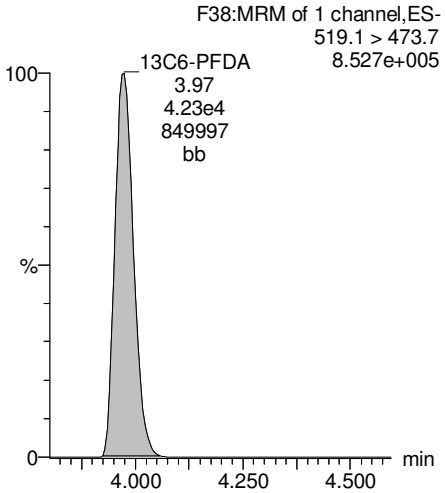
Last Altered: Tuesday, August 22, 2017 10:22:00 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:22:41 Pacific Daylight Time

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

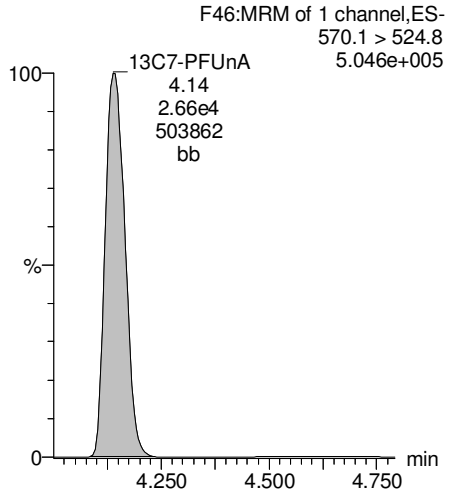
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:13:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	8.01e3	5.35e3	0.125		3.06	2.92	18.7	86.6	108.2
2	4	PFHxA	313.2 > 268.9	5.21e4	1.82e4	0.125		3.14	3.15	14.3	86.6	108.2
3	5	PFHpA	363 > 318.9	4.35e4	4.23e4	0.125		3.40	3.41	12.8	87.2	108.9
4	6	PFHxS	398.9 > 79.6	5.11e3	3.77e3	0.125		3.58	3.48	17.0	77.1	96.4
5	8	PFOA	413 > 368.7	4.35e4	5.28e4	0.125		3.71	3.61	10.3	82.9	103.7
6	10	PFNA	462.9 > 418.8	3.72e4	4.05e4	0.125		3.75	3.80	11.5	89.7	112.1
7	12	PFOS	499 > 79.9	6.50e3	7.45e3	0.125		3.96	3.85	10.9	82.0	102.5
8	13	PFDA	513 > 468.8	3.18e4	3.23e4	0.125		3.96	3.97	12.3	86.3	107.8
9	15	N-MeFOSAA	570.1 > 419	4.53e3	3.77e3	0.125		4.11	4.00	195	80.8	101.0
10	16	N-EtFOSAA	584.2 > 419	2.59e3	2.91e3	0.125		4.18	4.07	145	73.8	92.2
11	17	PFUnA	562.9 > 518.9	9.90e3	1.52e4	0.125		4.12	4.14	8.16	80.0	100.0
12	19	PFDoA	612.9 > 318.8	6.03e2	8.22e2	0.125		4.28	4.30	9.16	87.6	109.5

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:14:03 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9	8.27e3	8.22e2	0.125		4.45	4.47	126	99.4	124.3
2	22	PFTeDA	712.9 > 668.8	7.68e3	8.73e3	0.125		4.66	4.65	11.0	76.9	96.1
3	30	13C3-PFBS	302 > 98.8	5.35e3	6.13e4	0.125	0.033	2.94	2.92	0.436	106	106.2
4	31	13C2-PFHxA	315 > 269.8	1.82e4	6.13e4	0.125	0.304	3.14	3.15	1.49	39.1	97.8
5	32	13C4-PFHpA	367.2 > 321.8	4.23e4	6.13e4	0.125	0.384	3.40	3.41	3.45	71.9	71.9
6	33	18O2-PFHxS	403 > 102.6	3.77e3	9.11e3	0.125	0.417	3.47	3.48	5.17	99.2	99.2
7	35	13C2-PFOA	414.9 > 369.7	5.28e4	5.12e4	0.125	1.132	3.71	3.62	12.9	91.0	91.0
8	36	13C5-PFNA	468.2 > 422.9	4.05e4	5.30e4	0.125	0.946	3.75	3.80	9.55	80.8	80.8
9	38	13C8-PFOS	507 > 79.9	7.45e3	7.62e3	0.125	1.040	3.84	3.85	12.2	94.1	94.1
10	39	13C2-PFDA	515.1 > 469.9	3.23e4	3.88e4	0.125	0.971	3.96	3.97	10.4	85.7	85.7

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:16:24 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	3.77e3	2.05e4	0.125	0.018	3.99	4.00	2.29	1030	79.4
2	42	d5-N-EtFOSAA	589.3 > 419	2.91e3	2.05e4	0.125	0.018	4.06	4.06	1.77	776	59.7
3	43	13C2-PFUnA	565 > 519.8	1.52e4	2.05e4	0.125	1.085	4.12	4.14	9.23	68.1	68.1
4	44	13C2-PFDoA	615 > 569.7	8.22e2	2.05e4	0.125	0.123	4.29	4.30	0.500	32.5	32.5
5	46	13C2-PFTeDA	714.8 > 669.6	8.73e3	2.05e4	0.125	0.798	4.66	4.65	5.31	53.3	53.3
6	52	13C5-PFHxA	318 > 272.9	6.13e4	6.13e4	0.125	1.000	3.14	3.15	5.00	40.0	100.0
7	53	13C3-PFHxS	401.9 > 79.9	9.11e3	9.11e3	0.125	1.000	3.47	3.48	12.5	100	100.0
8	54	13C8-PFOA	421.3 > 376	5.12e4	5.12e4	0.125	1.000	3.71	3.62	12.5	100	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.30e4	5.30e4	0.125	1.000	3.79	3.80	12.5	100	100.0
10	56	13C4-PFOS	503 > 79.9	7.62e3	7.62e3	0.125	1.000	3.84	3.85	12.5	100	100.0
11	57	13C6-PFDA	519.1 > 473.7	3.88e4	3.88e4	0.125	1.000	3.95	3.97	12.5	100	100.0
12	58	13C7-PFUnA	570.1 > 524.8	2.05e4	2.05e4	0.125	1.000	4.12	4.13	12.5	100	100.0
13	59	Total PFBS	299 > 79.7	8.01e3	5.35e3	0.125		3.06		18.7	86.6	
14	60	Total PFHxS	398.9 > 79.6	5.11e3	3.77e3	0.125		3.58		17.0	77.1	
15	61	Total PFOA	413 > 368.7	4.35e4	5.28e4	0.125		3.71		10.3	82.9	
16	62	Total PFOS	499 > 79.9	6.50e3	7.45e3	0.125		3.96		10.9	82.0	
17	63	Total N-Me-FOSAA	570.1 > 419	4.53e3	3.77e3	0.125		4.11		195	80.8	
18	64	Total N-EtFOSAA	584.2 > 419	2.59e3	2.91e3	0.125		4.18		145	73.8	

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:13:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.92	8011.004	5349.988	18.717	bb	86.6

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.48	5111.611	3768.057	16.957	MM	77.1

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.61	43537.754	52762.949	10.314	bb	82.9

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.85	6495.285	7453.725	10.893	MM	82.0

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15	N-MeFOSAA	570.1 > 419	4.00	4525.402	3769.013	195.112	bb	80.8

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	16	N-EtFOSAA	584.2 > 419	4.07	2585.349	2907.021	144.519	bb	73.8

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Vista Analytical Laboratory

Revd: MM 8/23/17

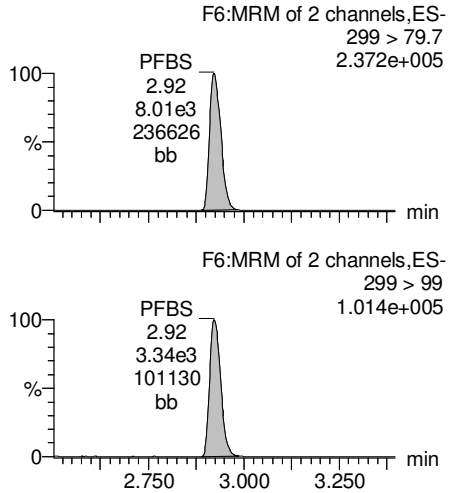
Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:13:37 Pacific Daylight Time

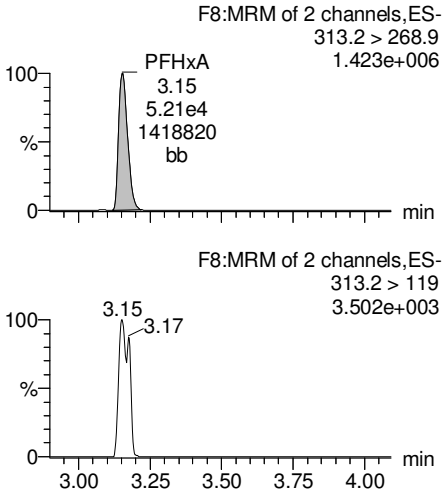
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

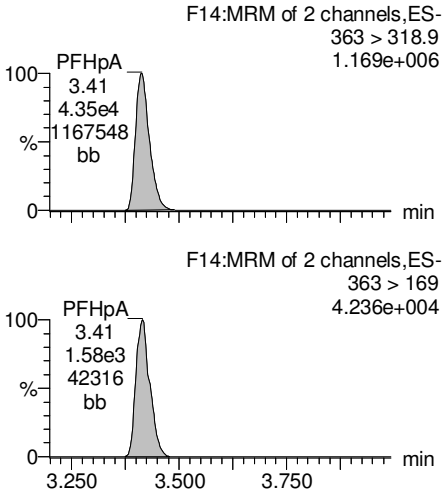
Total PFBS



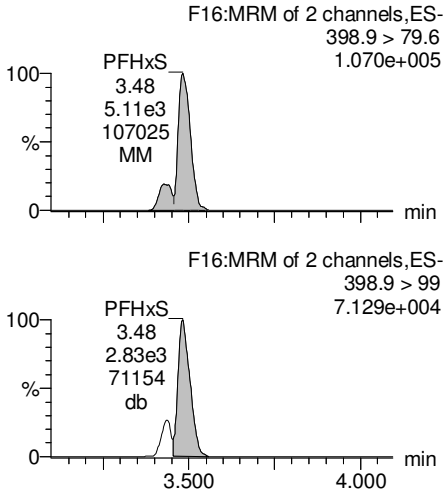
PFHxA



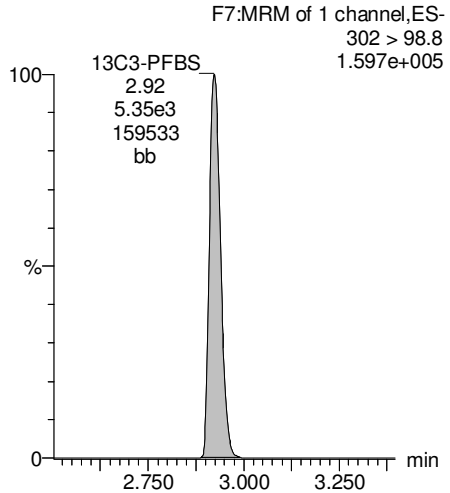
PFHpA



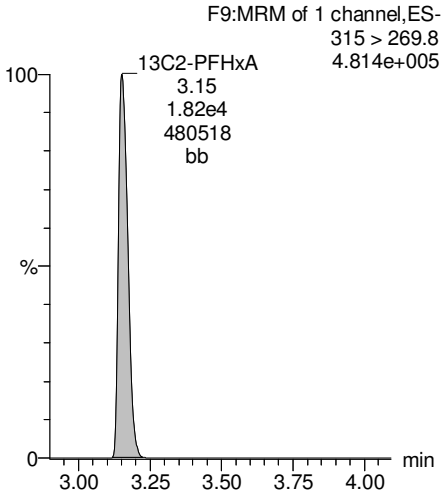
Total PFHxS



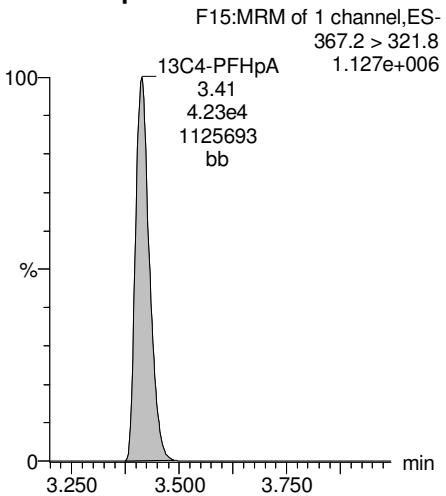
13C3-PFBS



13C2-PFHxA



13C4-PFHpA



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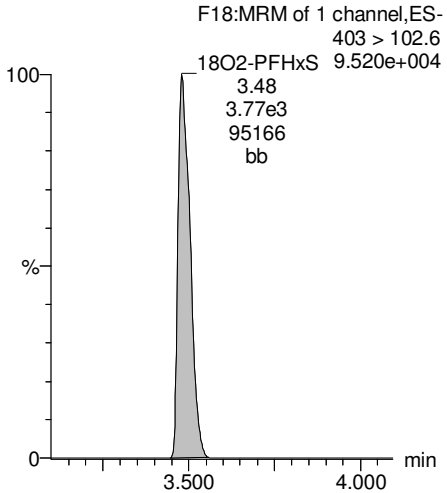

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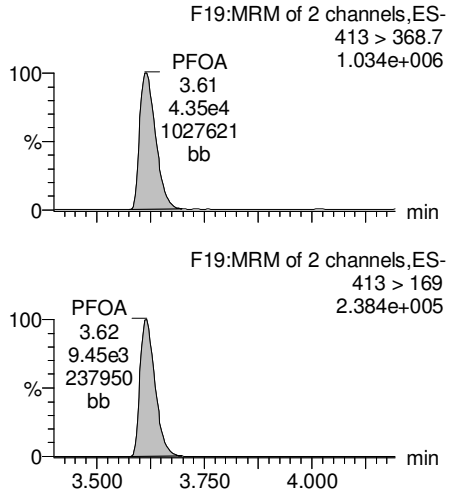
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:13:37 Pacific Daylight Time

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

Total PFOA



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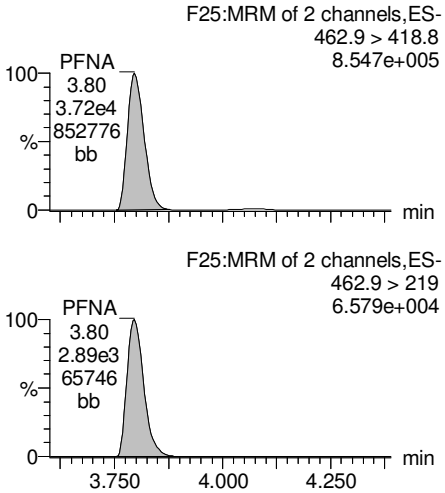
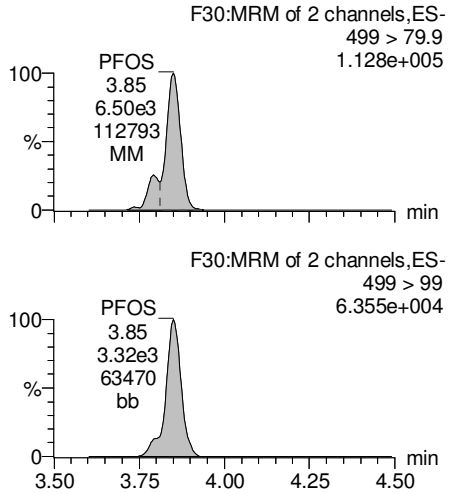
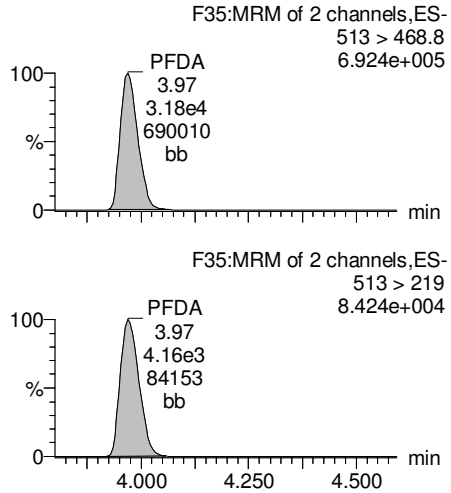


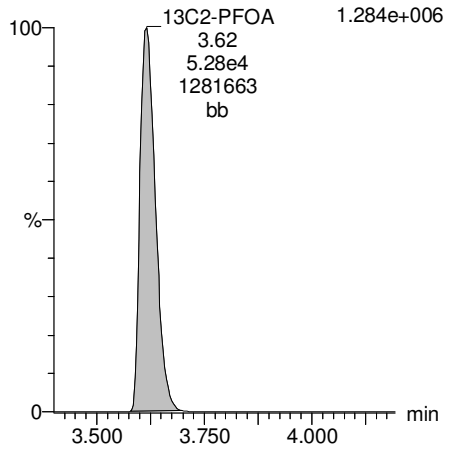
Total PFOS



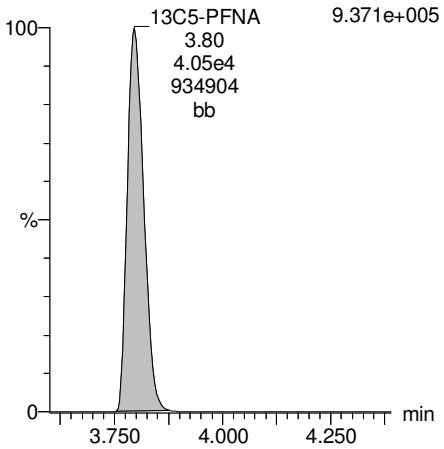
PFDA



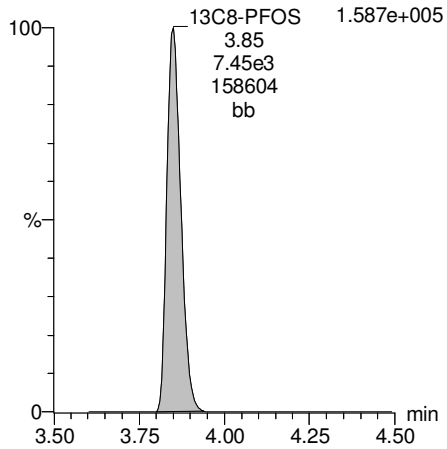
13C2-PFOA



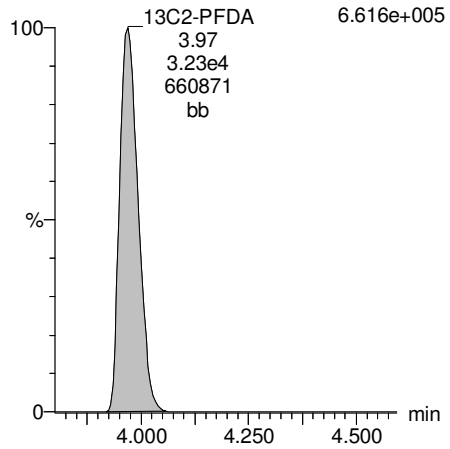
13C5-PFNA



13C8-PFOS



13C2-PFDA



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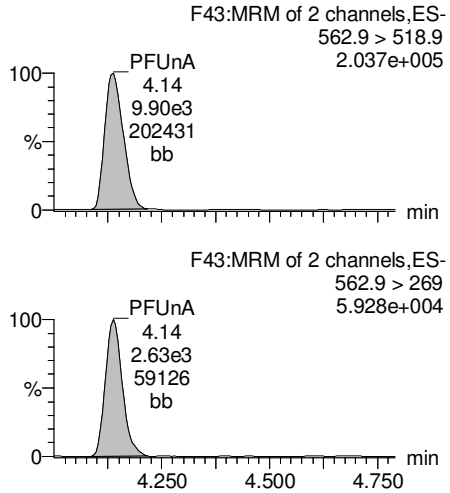
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

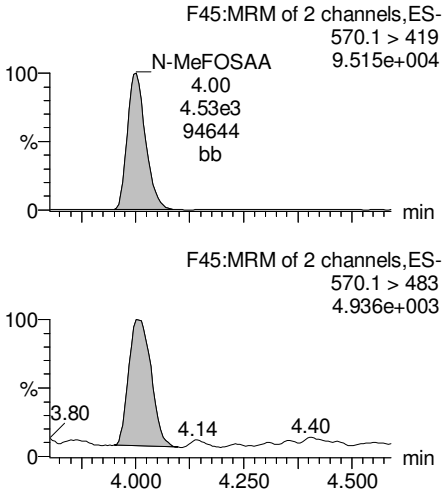
Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:13:37 Pacific Daylight Time

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

PFUnA



N-MeFOSAA



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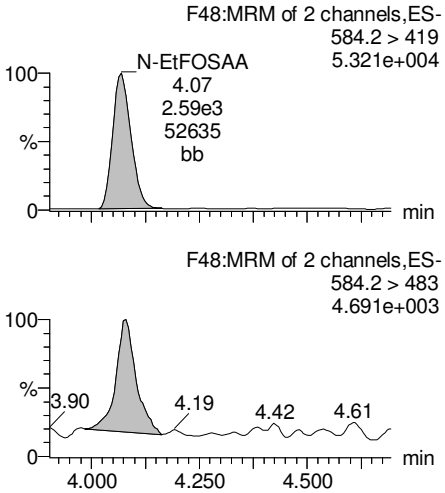
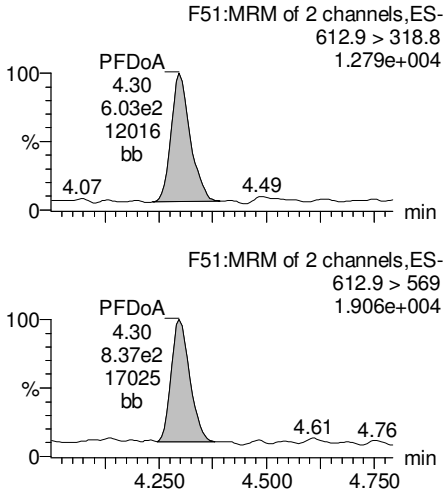


PFDoA



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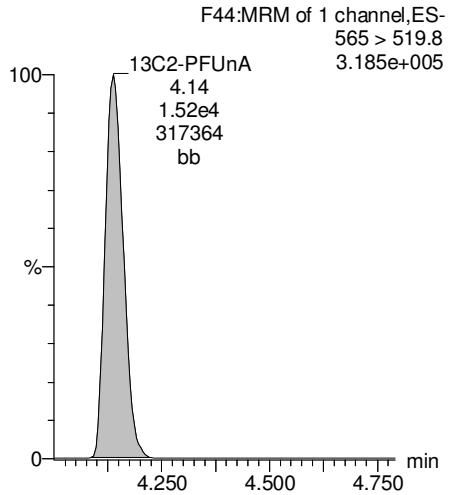

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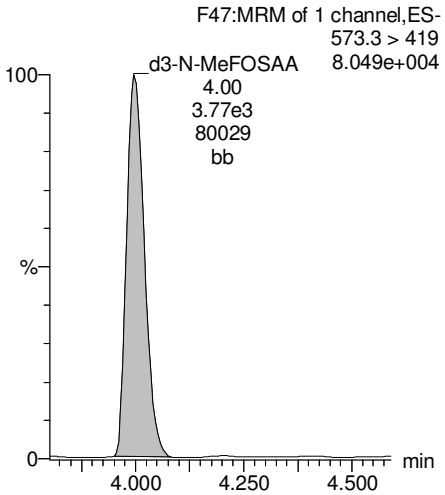

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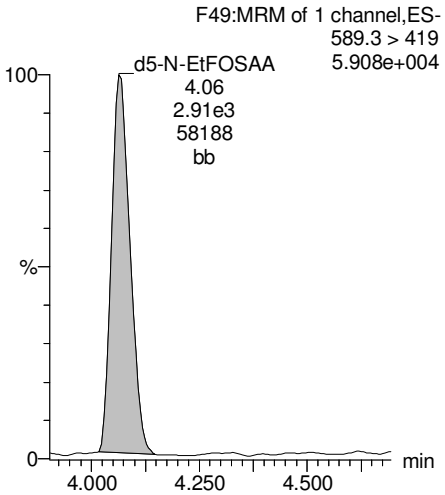
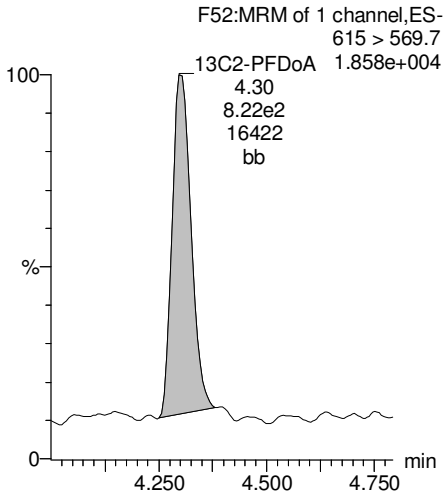


13C2-PFDoA



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Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:13:37 Pacific Daylight Time

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

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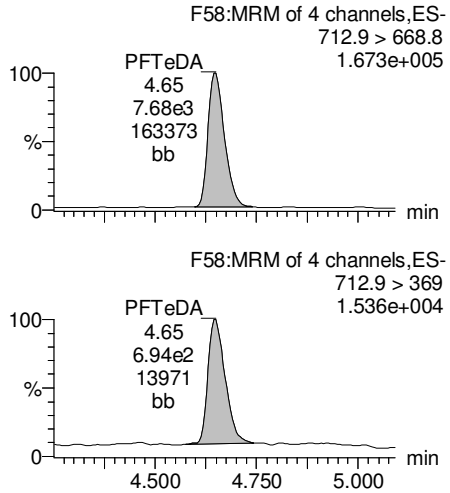

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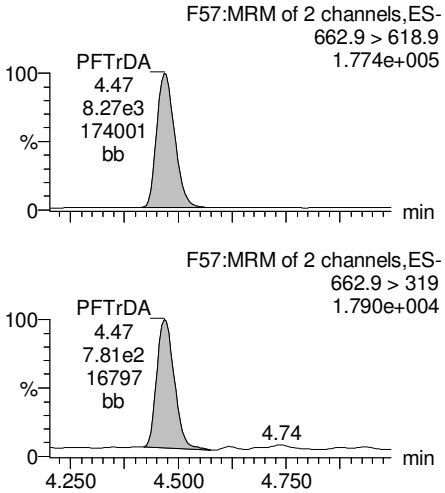
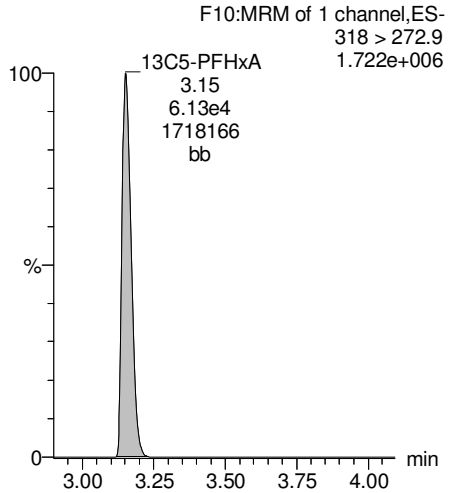
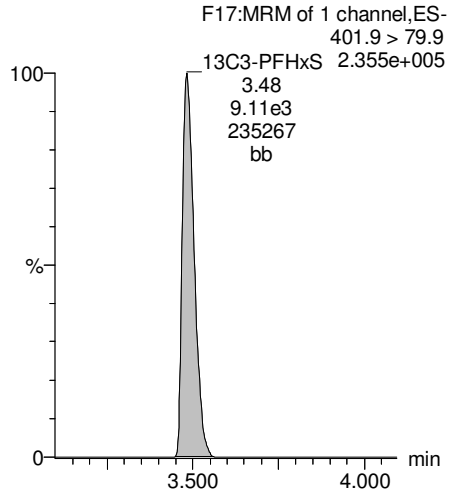


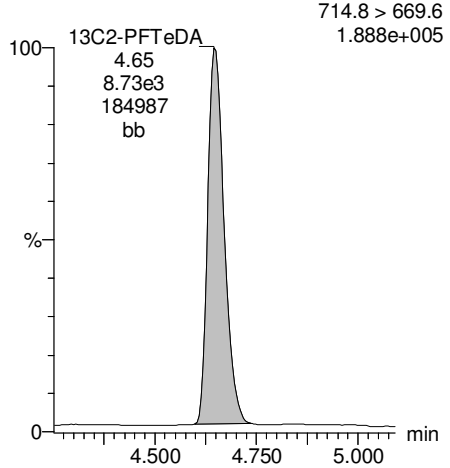
13C5-PFHxA



13C3-PFHxS



13C2-PFTeDA



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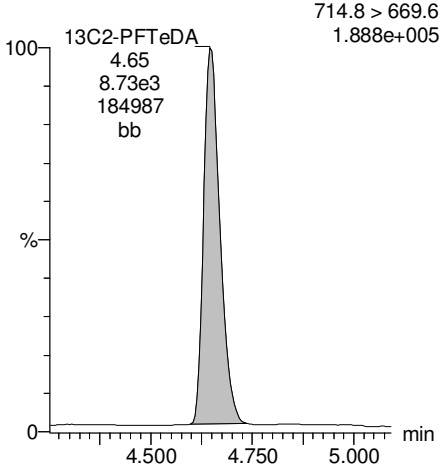
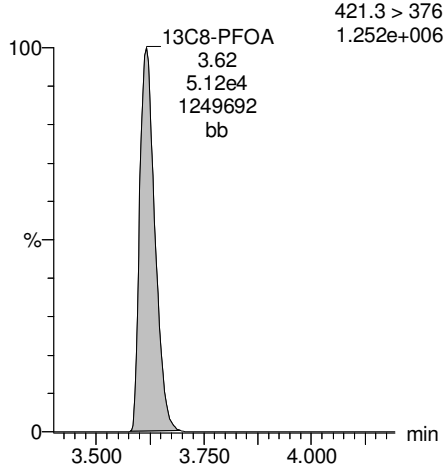
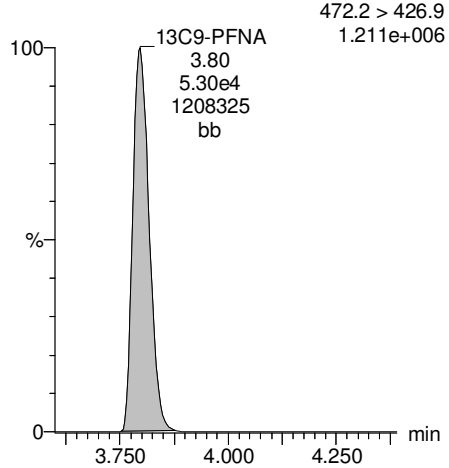


13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

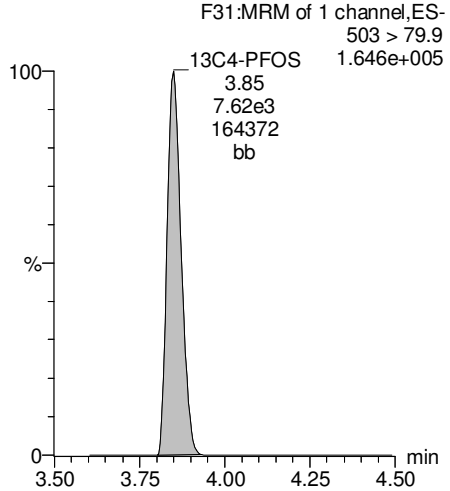
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-29.qld

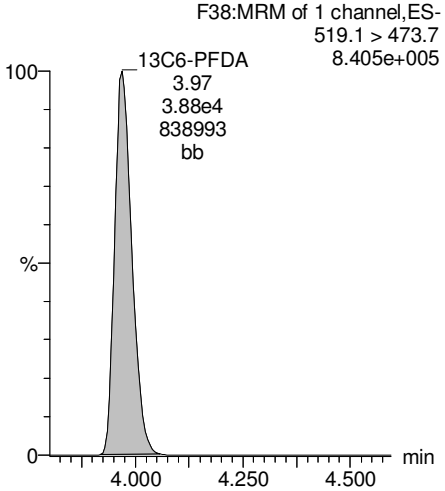
Last Altered: Tuesday, August 22, 2017 10:12:55 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:13:37 Pacific Daylight Time

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

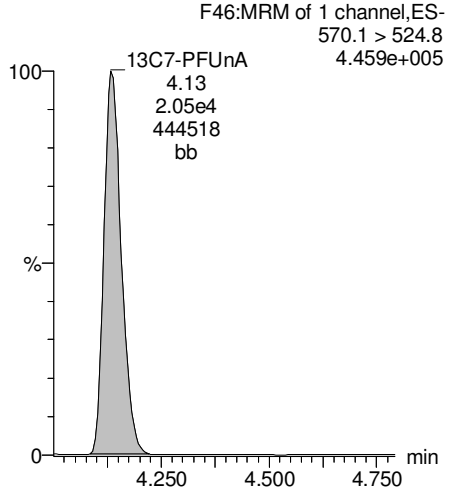
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:50:55 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	4.00e2	5.56e3	0.107		3.06	2.92	0.899	3.90	
2	4	PFHxA	313.2 > 268.9	1.44e4	1.69e4	0.107		3.14	3.15	4.28	26.8	
3	5	PFHpA	363 > 318.9	5.40e3	4.11e4	0.107		3.40	3.41	1.64	9.23	
4	6	PFHxS	398.9 > 79.6	1.46e3	3.64e3	0.107		3.58	3.48	5.04	27.0	
5	8	PFOA	413 > 368.7	5.95e3	5.31e4	0.107		3.71	3.62	1.40	11.9	
6	10	PFNA	462.9 > 418.8	4.62e2	4.39e4	0.107		3.75	3.80	0.132		
7	12	PFOS	499 > 79.9	5.39e2	8.70e3	0.107		3.96	3.85	0.775	7.09	
8	13	PFDA	513 > 468.8		3.84e4	0.107		3.96				
9	15	N-MeFOSAA	570.1 > 419		7.10e3	0.107		4.11				
10	16	N-EtFOSAA	584.2 > 419		6.67e3	0.107		4.18				
11	17	PFUnA	562.9 > 518.9		3.82e4	0.107		4.12				
12	19	PFDoA	612.9 > 318.8		1.78e3	0.107		4.28				

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:51:10 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.78e3	0.107		4.45				
2	22	PFTeDA	712.9 > 668.8		7.87e3	0.107		4.66				
3	30	13C3-PFBS	302 > 98.8	5.56e3	6.38e4	0.107	0.033	2.94	2.92	0.436	123	106.0
4	31	13C2-PFHxA	315 > 269.8	1.69e4	6.38e4	0.107	0.304	3.14	3.15	1.32	40.5	87.0
5	32	13C4-PFHpA	367.2 > 321.8	4.11e4	6.38e4	0.107	0.384	3.40	3.41	3.22	78.0	67.1
6	33	18O2-PFHxS	403 > 102.6	3.64e3	9.56e3	0.107	0.417	3.47	3.48	4.75	106	91.2
7	35	13C2-PFOA	414.9 > 369.7	5.31e4	5.30e4	0.107	1.132	3.71	3.62	12.5	103	88.5
8	36	13C5-PFNA	468.2 > 422.9	4.39e4	5.52e4	0.107	0.946	3.75	3.79	9.93	97.7	83.9
9	38	13C8-PFOS	507 > 79.9	8.70e3	8.47e3	0.107	1.040	3.84	3.85	12.8	115	98.8
10	39	13C2-PFDA	515.1 > 469.9	3.84e4	5.02e4	0.107	0.971	3.96	3.97	9.56	91.6	78.7

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:51:28 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	7.10e3	3.69e4	0.107	0.018	3.99	4.00	2.41	1260	83.2
2	42	d5-N-EtFOSAA	589.3 > 419	6.67e3	3.69e4	0.107	0.018	4.06	4.07	2.26	1150	76.3
3	43	13C2-PFUnA	565 > 519.8	3.82e4	3.69e4	0.107	1.085	4.12	4.14	13.0	111	95.5
4	44	13C2-PFDoA	615 > 569.7	1.78e3	3.69e4	0.107	0.123	4.29	4.30	0.605	45.7	39.3
5	46	13C2-PFTeDA	714.8 > 669.6	7.87e3	3.69e4	0.107	0.798	4.66	4.65	2.67	31.1	26.7
6	52	13C5-PFHxA	318 > 272.9	6.38e4	6.38e4	0.107	1.000	3.14	3.15	5.00	46.5	100.0
7	53	13C3-PFHxS	401.9 > 79.9	9.56e3	9.56e3	0.107	1.000	3.47	3.48	12.5	116	100.0
8	54	13C8-PFOA	421.3 > 376	5.30e4	5.30e4	0.107	1.000	3.71	3.62	12.5	116	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.52e4	5.52e4	0.107	1.000	3.79	3.79	12.5	116	100.0
10	56	13C4-PFOS	503 > 79.9	8.47e3	8.47e3	0.107	1.000	3.84	3.85	12.5	116	100.0
11	57	13C6-PFDA	519.1 > 473.7	5.02e4	5.02e4	0.107	1.000	3.95	3.97	12.5	116	100.0
12	58	13C7-PFUnA	570.1 > 524.8	3.69e4	3.69e4	0.107	1.000	4.12	4.14	12.5	116	100.0
13	59	Total PFBS	299 > 79.7	4.00e2	5.56e3	0.107		3.06		0.899	3.90	
14	60	Total PFHxS	398.9 > 79.6	1.46e3	3.64e3	0.107		3.58		5.04	27.0	
15	61	Total PFOA	413 > 368.7	6.52e3	5.31e4	0.107		3.71		1.40	11.9	
16	62	Total PFOS	499 > 79.9	5.39e2	8.70e3	0.107		3.96		0.775	7.09	
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	7.10e3	0.107		4.11		0.000		
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	6.67e3	0.107		4.18		0.000		

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
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Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.92	400.065	5564.712	0.899	bb	3.9

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.48	1464.828	3635.375	5.037	MM	27.0

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.62	5951.005	53052.730	1.402	dd	11.9
2	61	Total PFOA	413 > 368.7	3.56	564.763	53052.730	0.133	bdl	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.85	539.226	8701.078	0.775	MM	7.1

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

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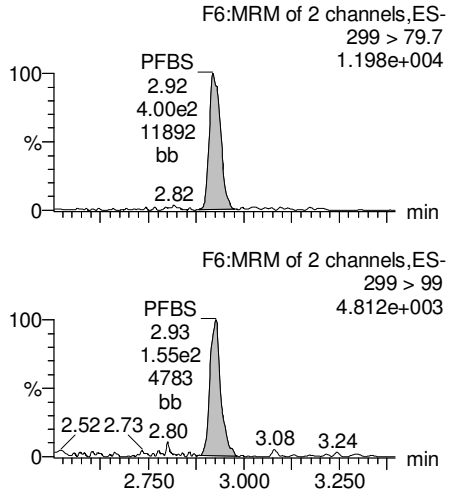
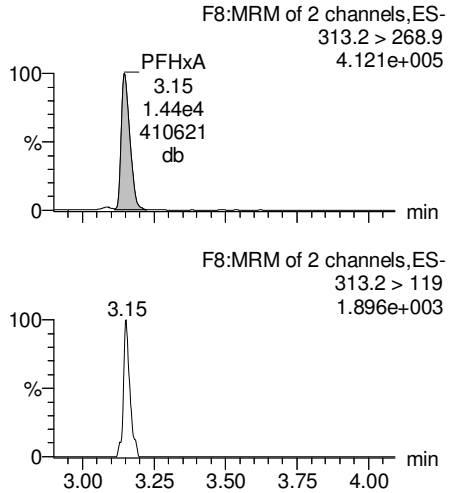
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

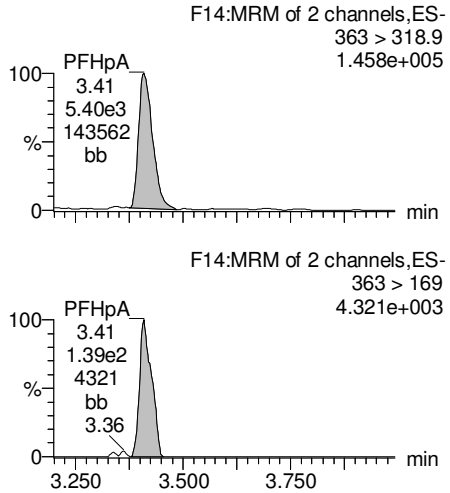
Total PFBS



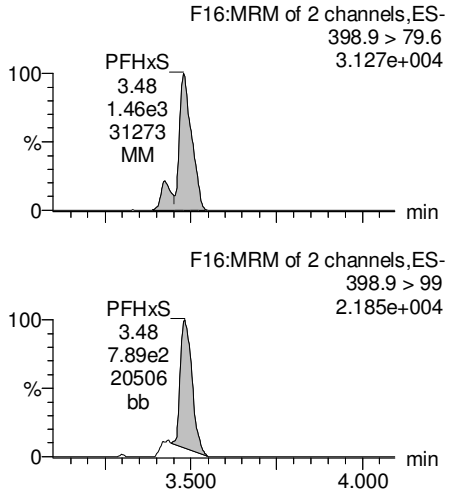
PFHxA



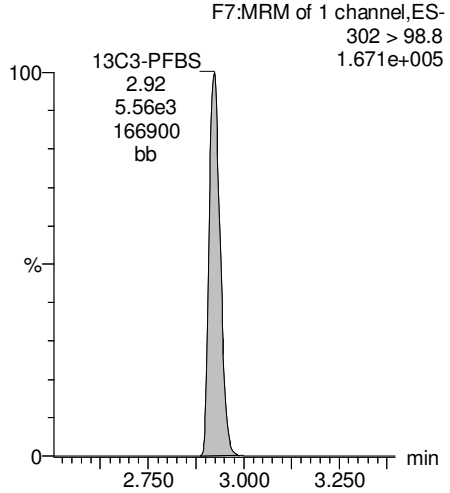
PFHpA



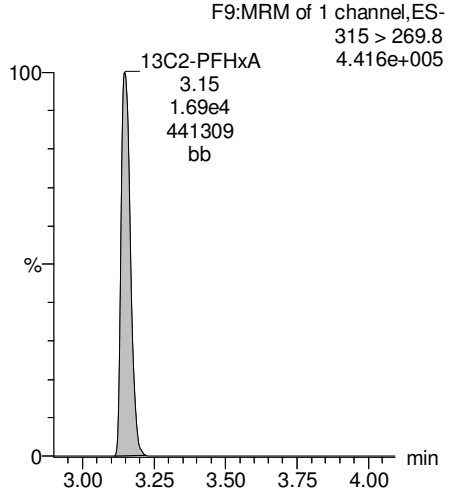
Total PFHxS



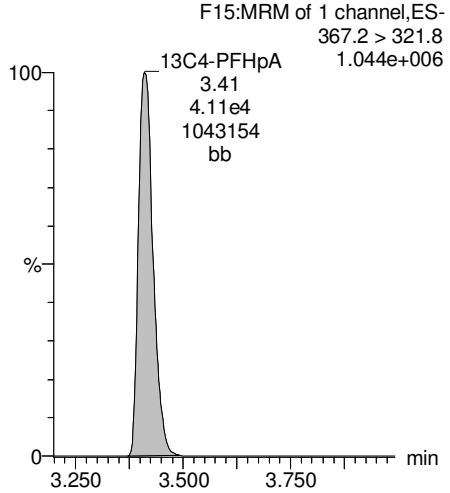
13C3-PFBS



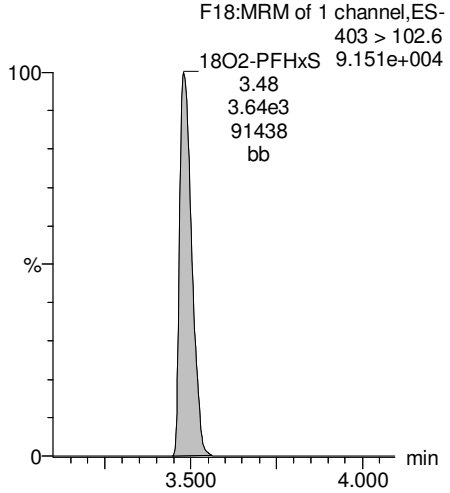
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
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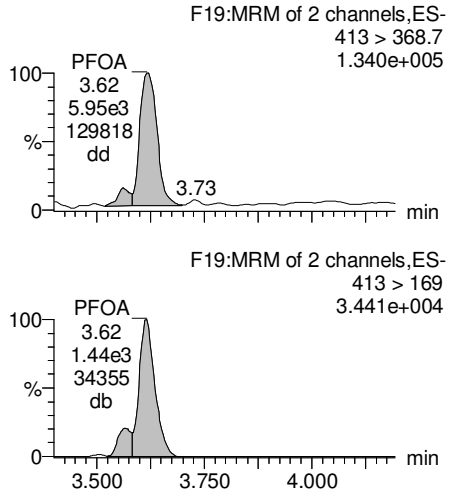
Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

Total PFOA



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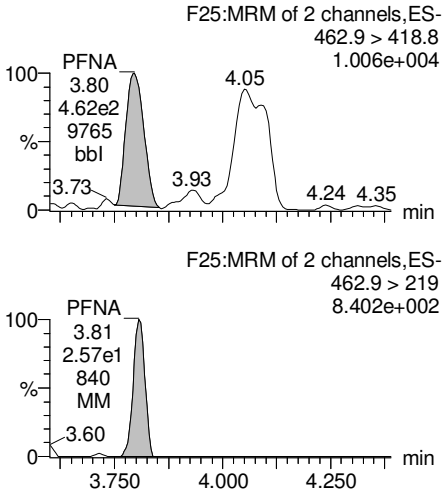

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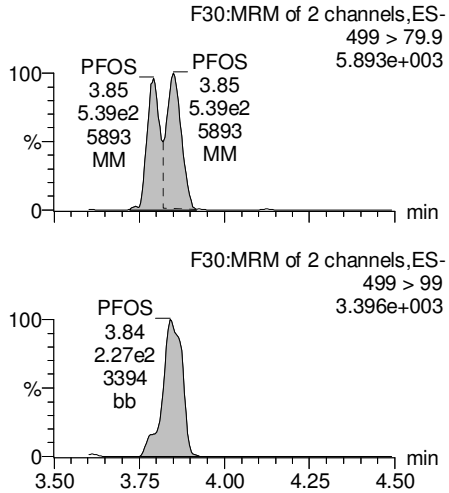

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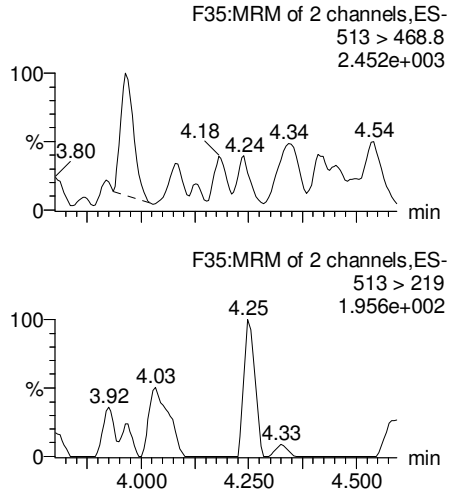
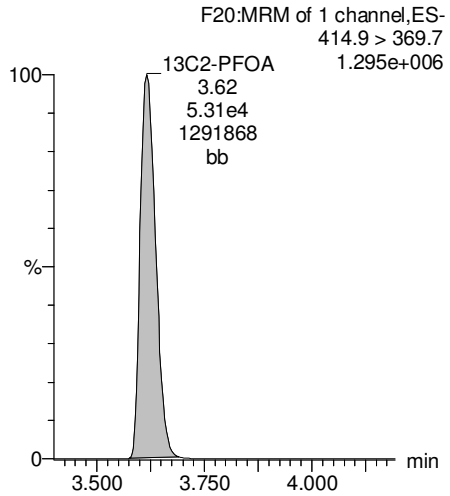


13C2-PFOA



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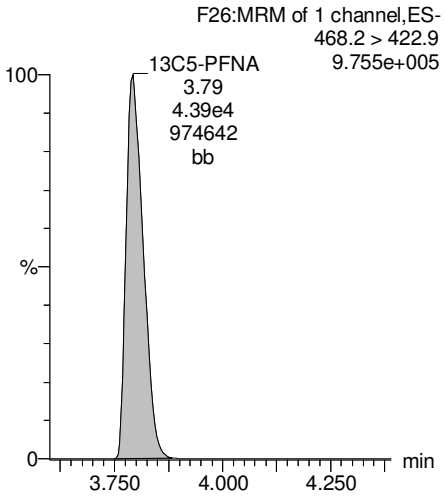

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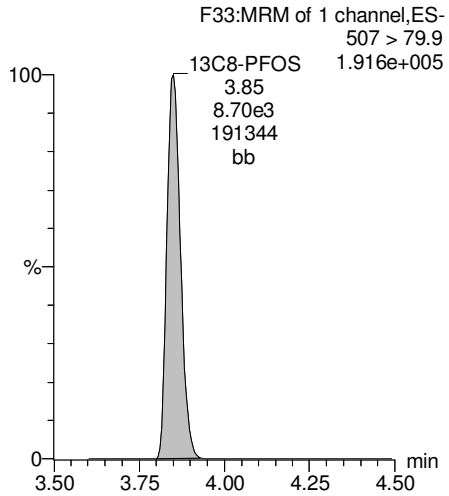

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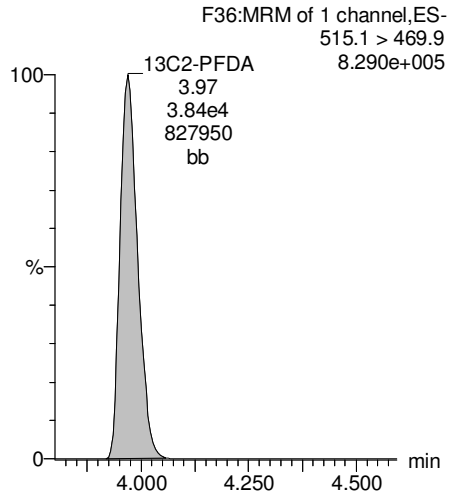

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Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
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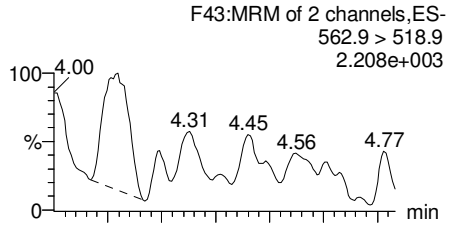
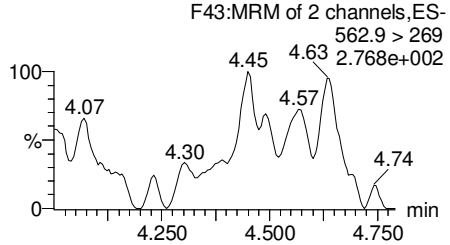
Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

PFUnA





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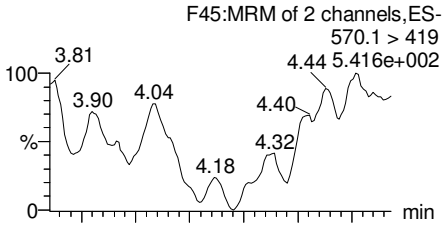

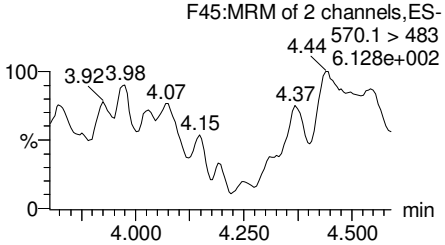

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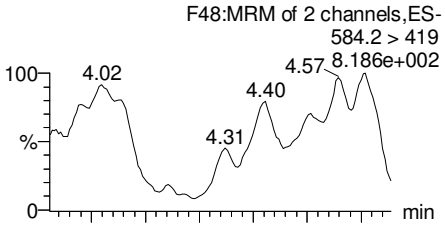

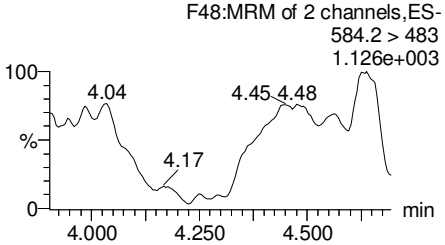

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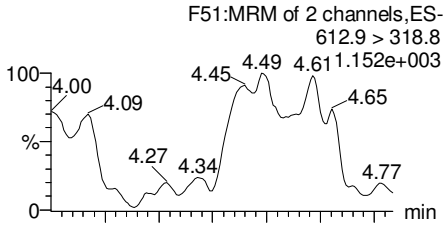

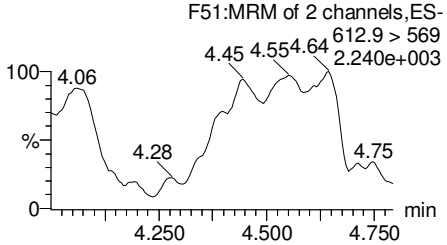

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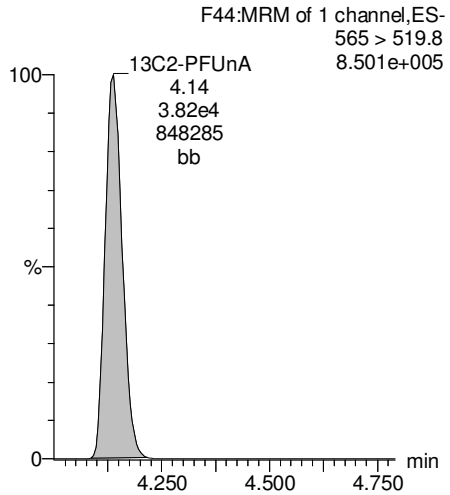
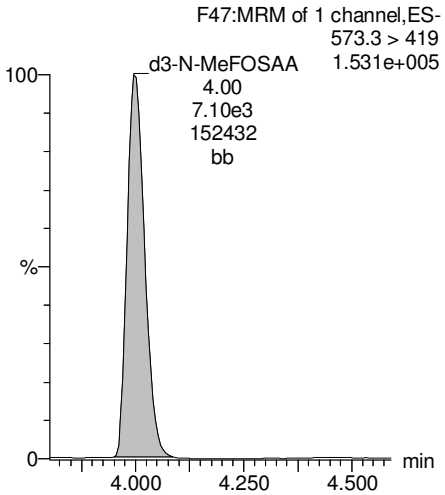


d3-N-MeFOSAA



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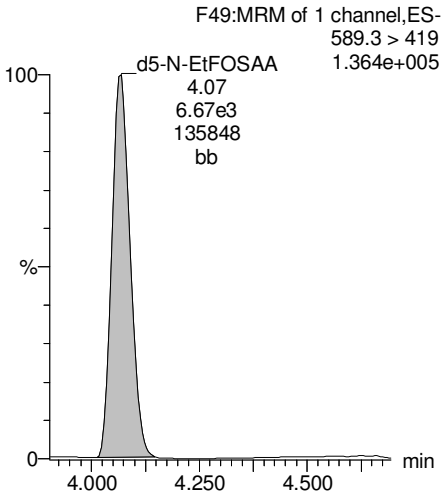
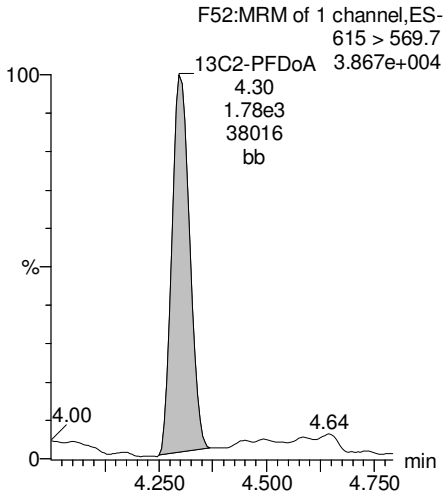


13C2-PFDoA



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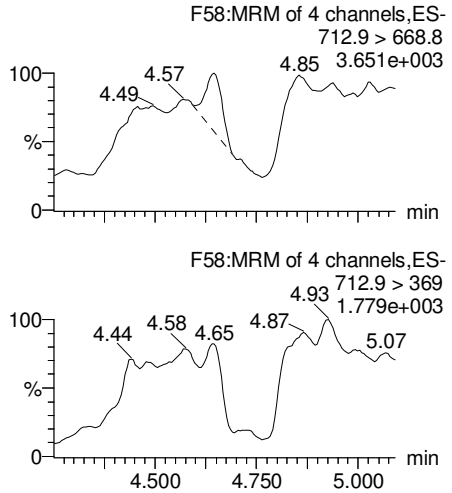
Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:50:55 Pacific Daylight Time

Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

PFTeDA



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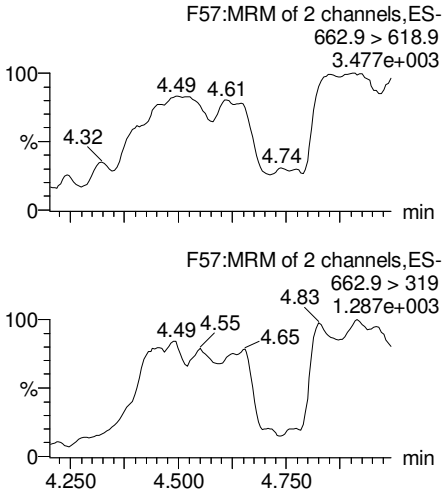
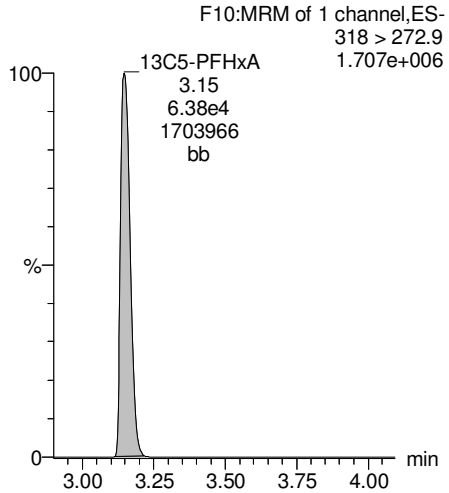


13C5-PFHxA



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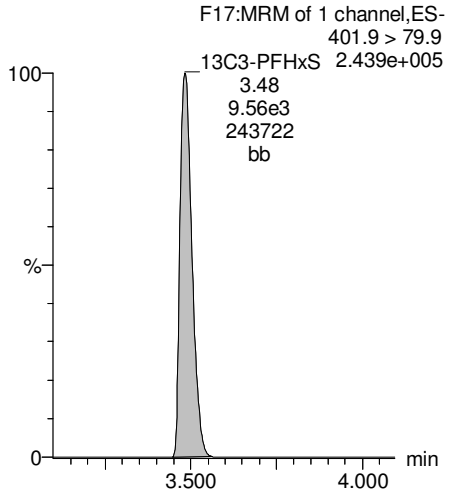

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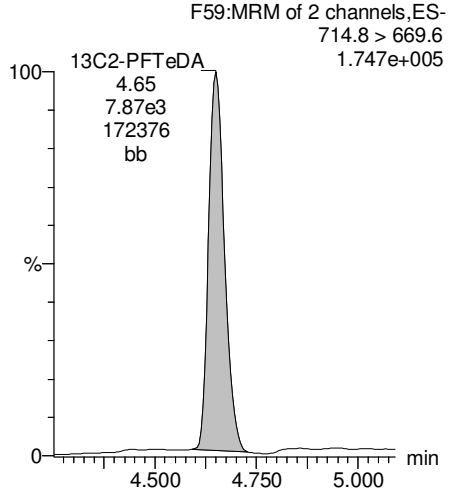

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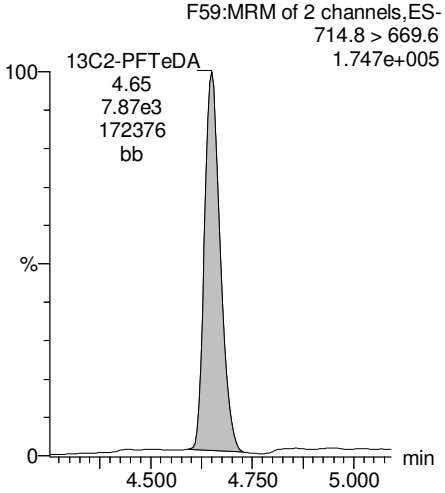
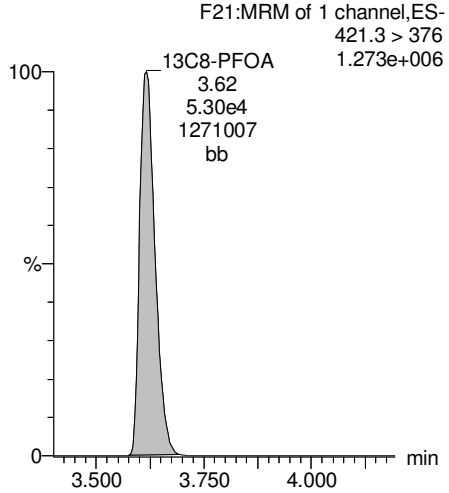
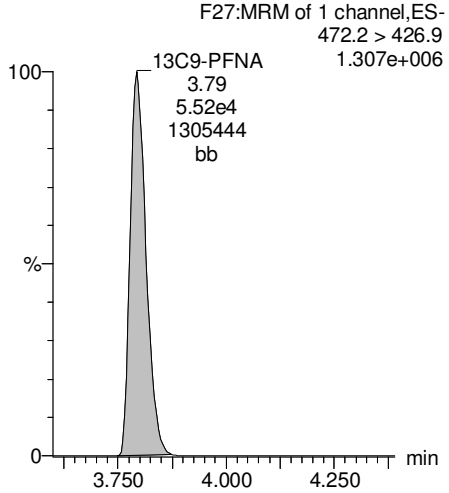


13C8-PFOA



13C9-PFNA



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Dataset: U:\Q4.PRO\results\170815M1\170815M1-34.qld

Last Altered: Tuesday, August 22, 2017 11:50:29 Pacific Daylight Time
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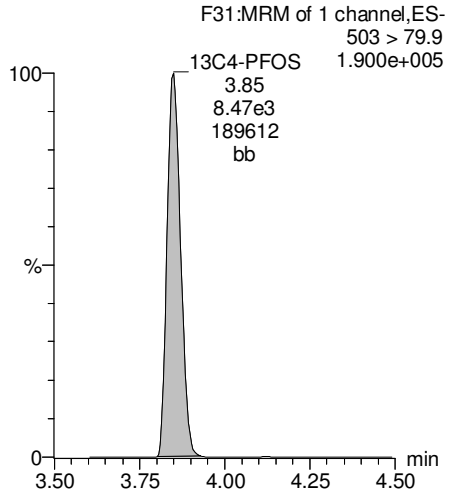
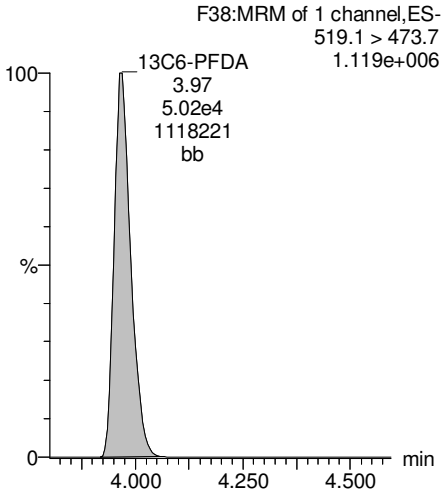
Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

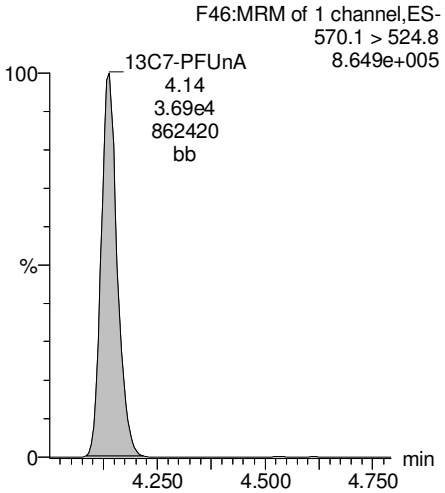
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:58:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	1.44e2	5.80e3	0.113		3.06	2.92	0.310	0.673	
2	4	PFHxA	313.2 > 268.9		1.93e4	0.113		3.14				
3	5	PFHpA	363 > 318.9		4.28e4	0.113		3.40				
4	6	PFHxS	398.9 > 79.6	3.59e2	3.79e3	0.113		3.58	3.48	1.18	6.52	
5	8	PFOA	413 > 368.7	5.69e2	5.49e4	0.113		3.71	3.62	0.130		
6	10	PFNA	462.9 > 418.8	2.02e2	4.57e4	0.113		3.75	3.80	0.0553		
7	12	PFOS	499 > 79.9	9.09e2	8.28e3	0.113		3.86	3.80	1.37	11.7	
8	13	PFDA	513 > 468.8		3.84e4	0.113		3.96				
9	15	N-MeFOSAA	570.1 > 419		5.74e3	0.113		4.11				
10	16	N-EtFOSAA	584.2 > 419		4.89e3	0.113		4.18				
11	17	PFUnA	562.9 > 518.9		2.99e4	0.113		4.12				
12	19	PFDoA	612.9 > 318.8		1.72e3	0.113		4.28				

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Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:59:06 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.72e3	0.113		4.45				
2	22	PFTeDA	712.9 > 668.8		1.12e4	0.113		4.66				
3	30	13C3-PFBS	302 > 98.8	5.80e3	7.01e4	0.113	0.033	2.94	2.92	0.414	112	100.7
4	31	13C2-PFHxA	315 > 269.8	1.93e4	7.01e4	0.113	0.304	3.14	3.15	1.38	40.3	90.8
5	32	13C4-PFHpA	367.2 > 321.8	4.28e4	7.01e4	0.113	0.384	3.40	3.41	3.05	70.5	63.5
6	33	18O2-PFHxS	403 > 102.6	3.79e3	9.56e3	0.113	0.417	3.47	3.48	4.96	106	95.2
7	35	13C2-PFOA	414.9 > 369.7	5.49e4	5.43e4	0.113	1.132	3.71	3.62	12.6	99.1	89.3
8	36	13C5-PFNA	468.2 > 422.9	4.57e4	5.98e4	0.113	0.946	3.75	3.80	9.55	89.6	80.8
9	38	13C8-PFOS	507 > 79.9	8.28e3	8.64e3	0.113	1.040	3.84	3.85	12.0	102	92.1
10	39	13C2-PFDA	515.1 > 469.9	3.84e4	5.18e4	0.113	0.971	3.96	3.97	9.25	84.6	76.3

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Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:59:21 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	5.74e3	3.65e4	0.113	0.018	3.99	4.00	1.97	982	68.1
2	42	d5-N-EtFOSAA	589.3 > 419	4.89e3	3.65e4	0.113	0.018	4.06	4.08	1.68	816	56.6
3	43	13C2-PFUnA	565 > 519.8	2.99e4	3.65e4	0.113	1.085	4.12	4.14	10.3	83.9	75.6
4	44	13C2-PFDoA	615 > 569.7	1.72e3	3.65e4	0.113	0.123	4.29	4.30	0.590	42.5	38.3
5	46	13C2-PFTeDA	714.8 > 669.6	1.12e4	3.65e4	0.113	0.798	4.66	4.65	3.82	42.5	38.3
6	52	13C5-PFHxA	318 > 272.9	7.01e4	7.01e4	0.113	1.000	3.14	3.15	5.00	44.4	100.0
7	53	13C3-PFHxS	401.9 > 79.9	9.56e3	9.56e3	0.113	1.000	3.47	3.48	12.5	111	100.0
8	54	13C8-PFOA	421.3 > 376	5.43e4	5.43e4	0.113	1.000	3.71	3.62	12.5	111	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.98e4	5.98e4	0.113	1.000	3.79	3.80	12.5	111	100.0
10	56	13C4-PFOS	503 > 79.9	8.64e3	8.64e3	0.113	1.000	3.84	3.85	12.5	111	100.0
11	57	13C6-PFDA	519.1 > 473.7	5.18e4	5.18e4	0.113	1.000	3.95	3.97	12.5	111	100.0
12	58	13C7-PFUnA	570.1 > 524.8	3.65e4	3.65e4	0.113	1.000	4.12	4.14	12.5	111	100.0
13	59	Total PFBS	299 > 79.7	1.44e2	5.80e3	0.113		3.06		0.310	0.673	
14	60	Total PFHxS	398.9 > 79.6	3.59e2	3.79e3	0.113		3.58		1.18	6.52	
15	61	Total PFOA	413 > 368.7	5.69e2	5.49e4	0.113		3.71		0.000		
16	62	Total PFOS	499 > 79.9	9.09e2	8.28e3	0.113		3.96		1.37	11.7	
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	5.74e3	0.113		4.11		0.000		
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	4.89e3	0.113		4.18		0.000		

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Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:58:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.92	144.169	5804.899	0.310	bb	0.7

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.48	358.830	3794.518	1.182	MM	6.5

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.62	569.438	54920.707	0.130	MMI	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.80	908.873	8275.894	1.373	MM	11.7

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Vista Analytical Laboratory

Revd: MM 8/23/17

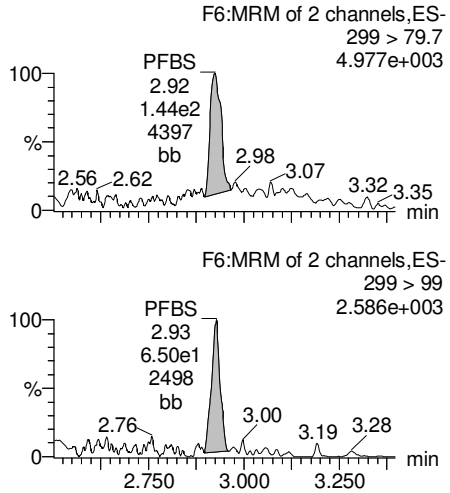
Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:58:52 Pacific Daylight Time

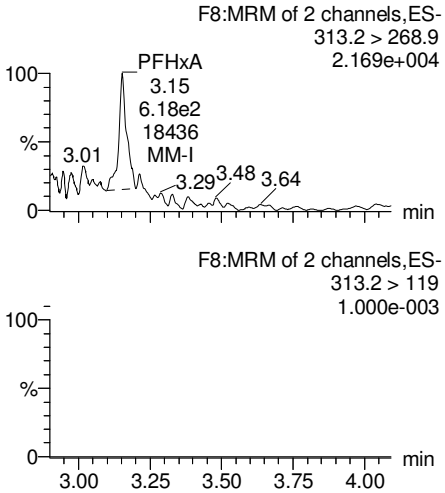
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

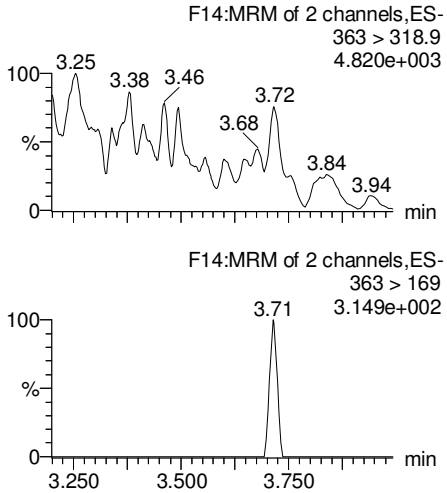
Total PFBS



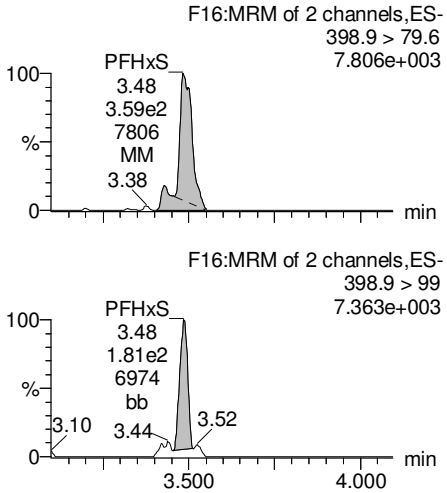
PFHxA



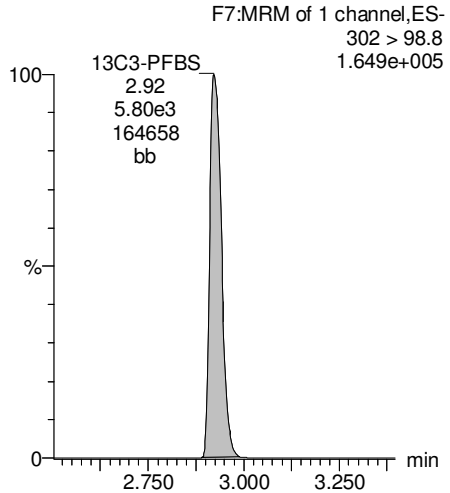
PFHpA



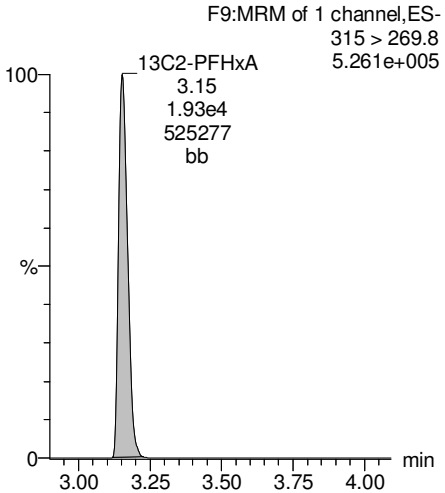
Total PFHxS



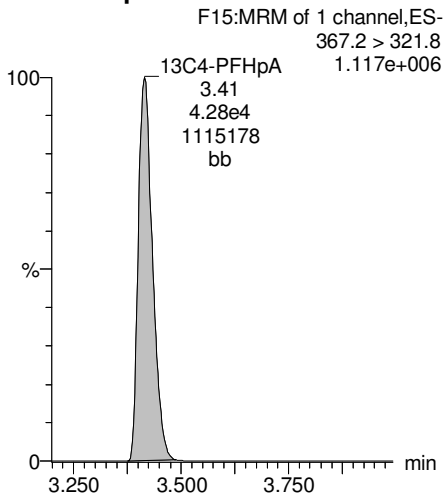
13C3-PFBS



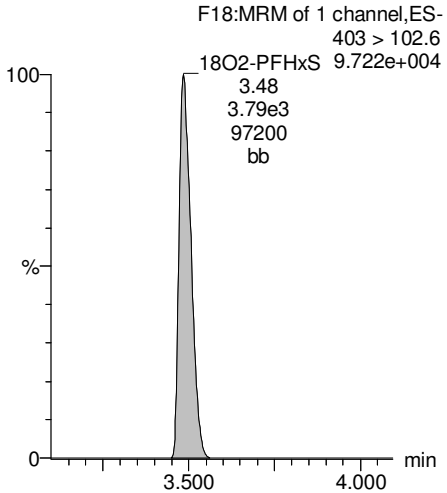
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Vista Analytical Laboratory

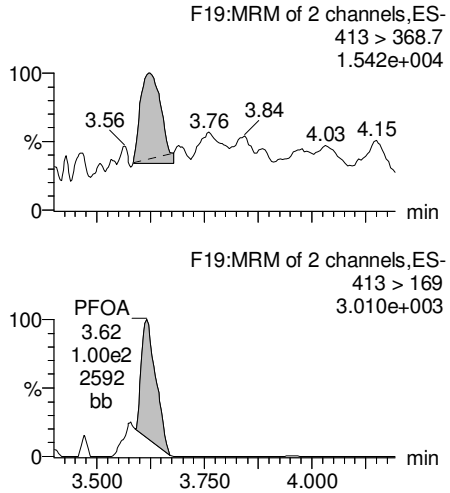
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

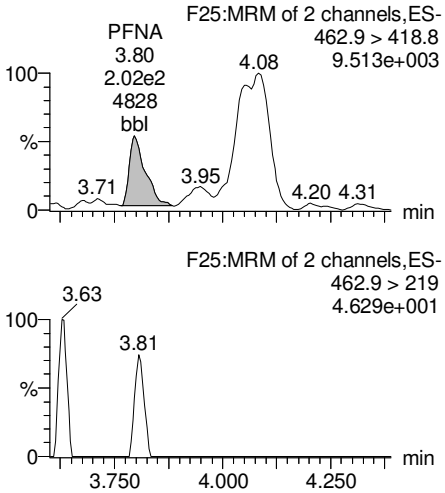
Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:58:52 Pacific Daylight Time

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

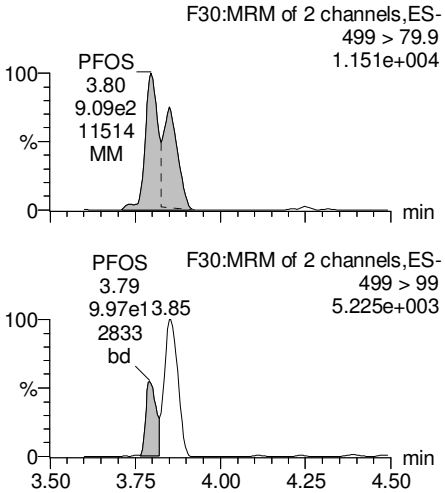
Total PFOA



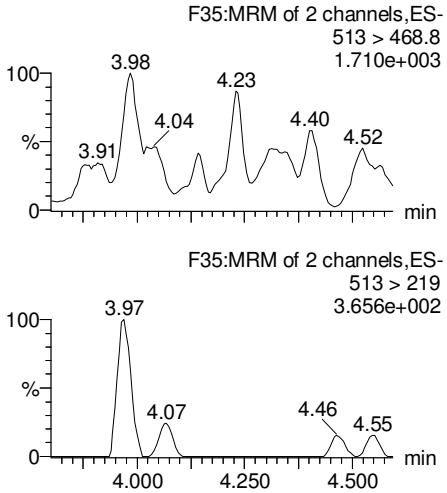
PFNA



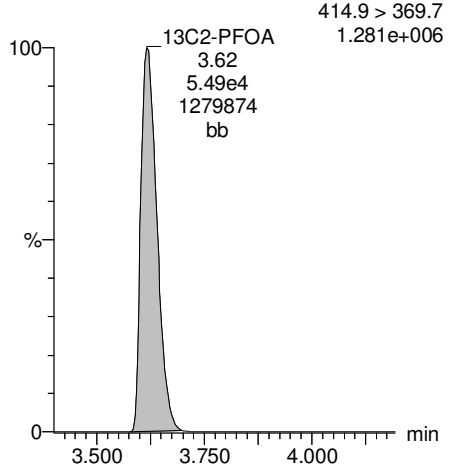
Total PFOS



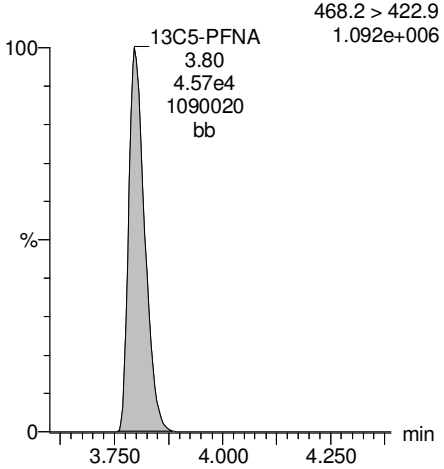
PFDA



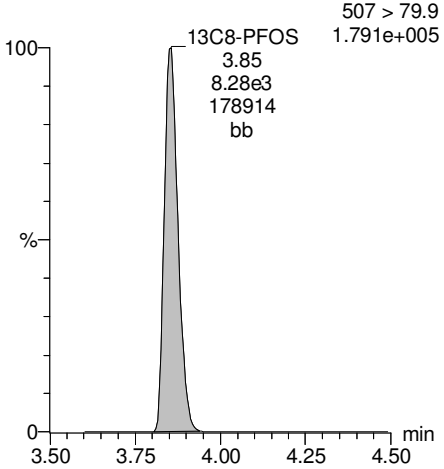
13C2-PFOA



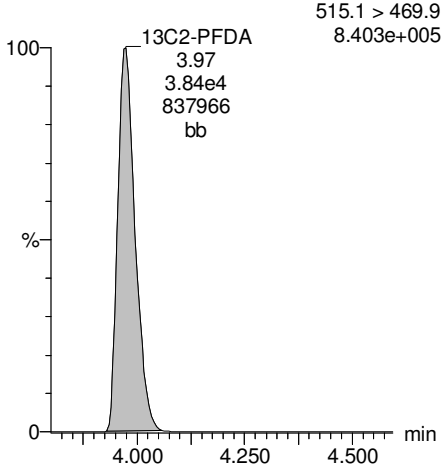
13C5-PFNA



13C8-PFOS



13C2-PFDA



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Vista Analytical Laboratory

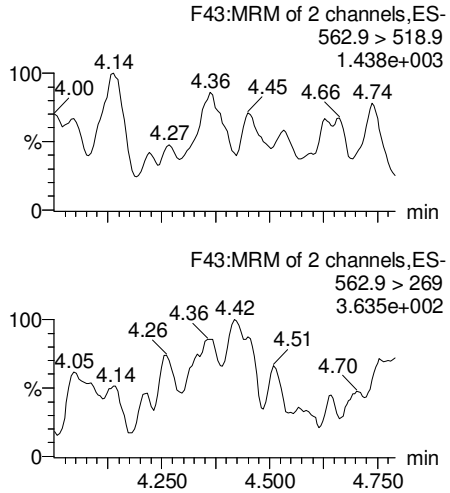
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

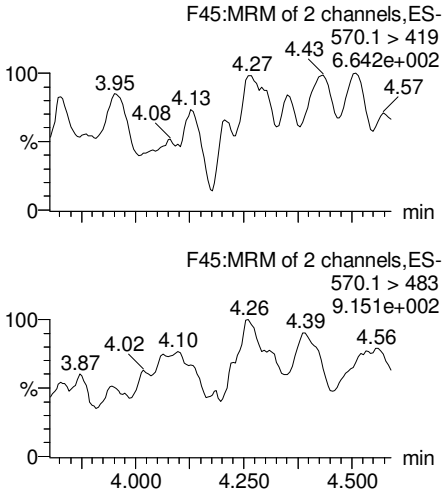
Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:58:52 Pacific Daylight Time

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

PFUnA



N-MeFOSAA



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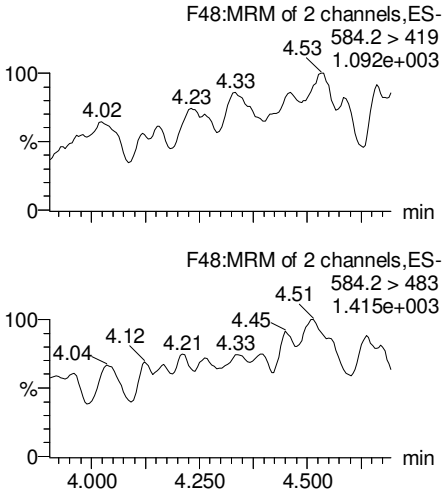
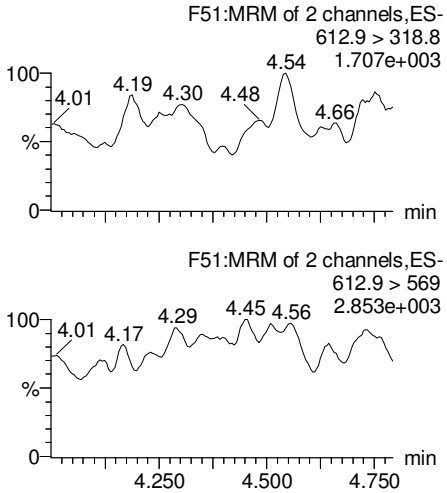
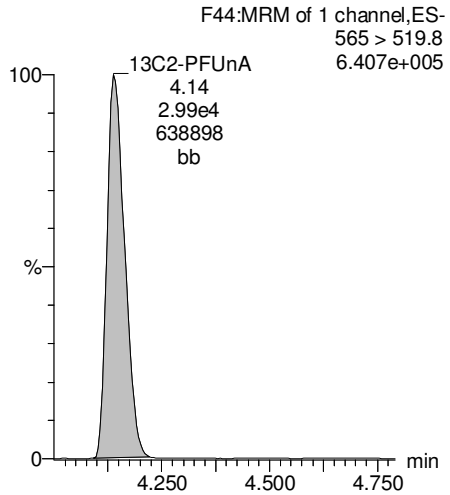


PFDoA



13C2-PFUnA



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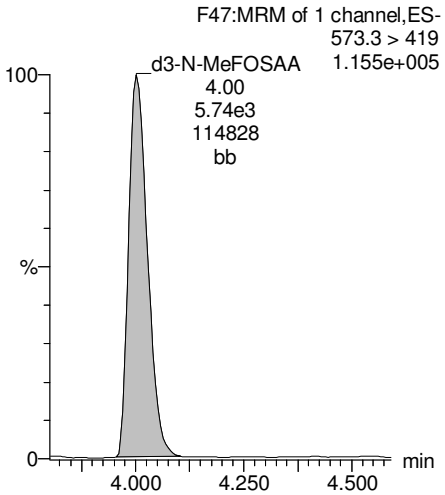
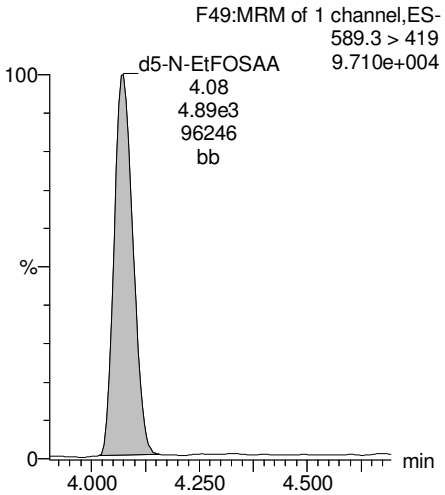
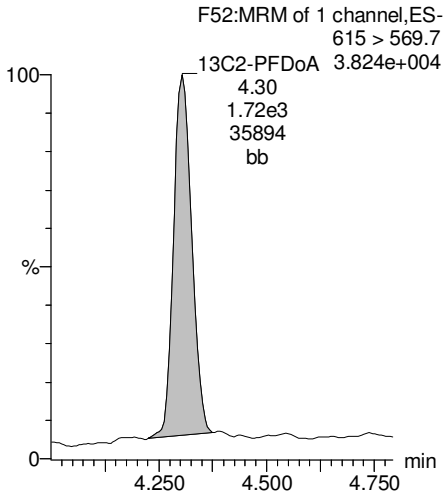


d5-N-EtFOSAA



13C2-PFDoA



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Vista Analytical Laboratory

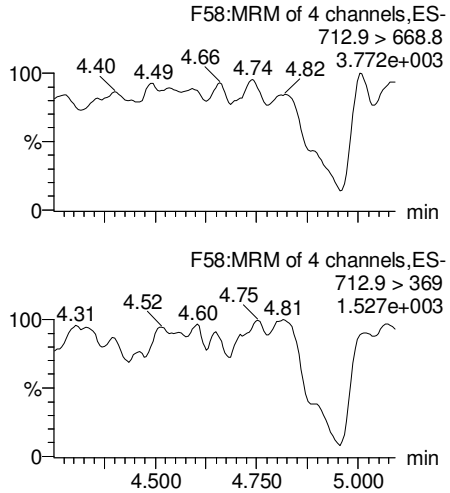
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

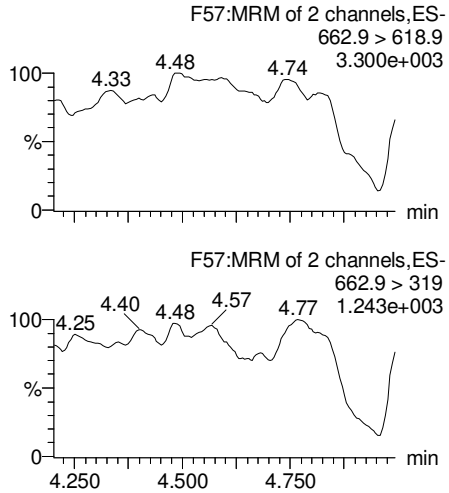
Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:58:52 Pacific Daylight Time

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

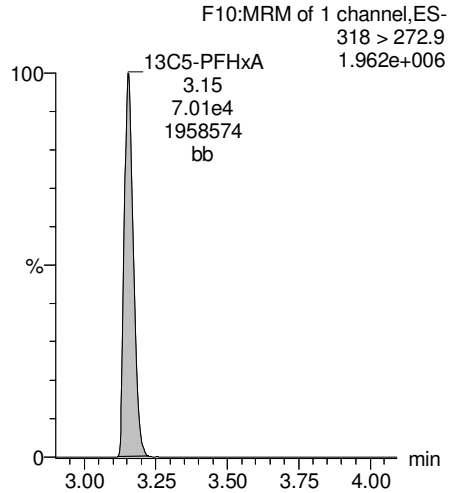
PFTeDA



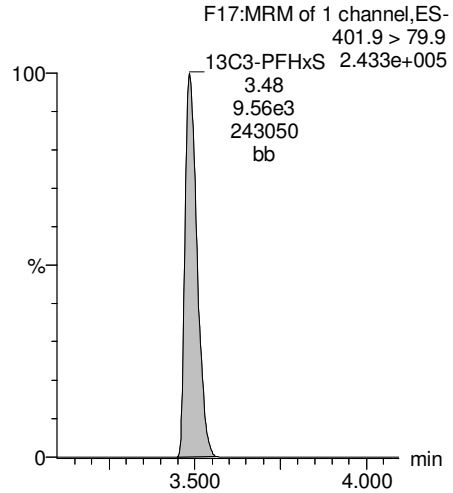
PFTrDA



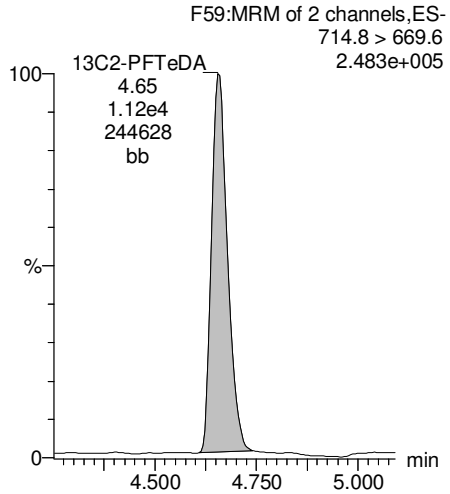
13C5-PFHxA



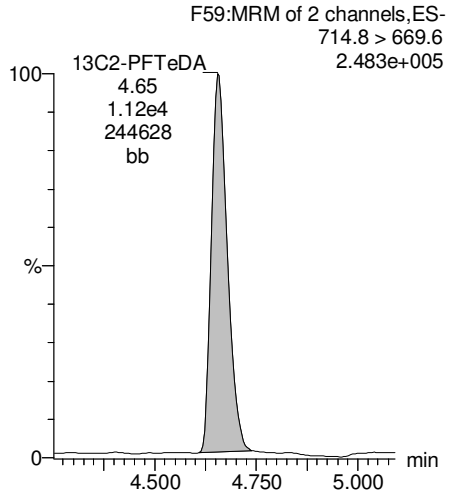
13C3-PFHxS



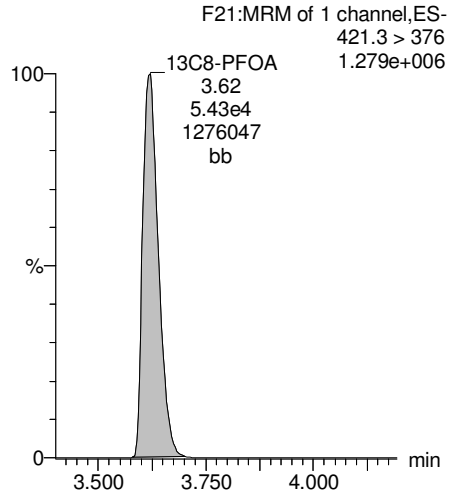
13C2-PFTeDA



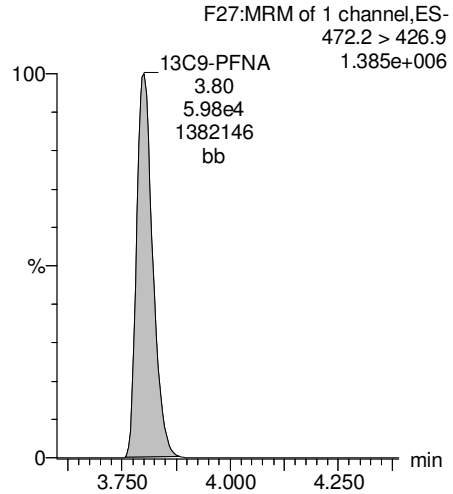
13C2-PFTeDA



13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

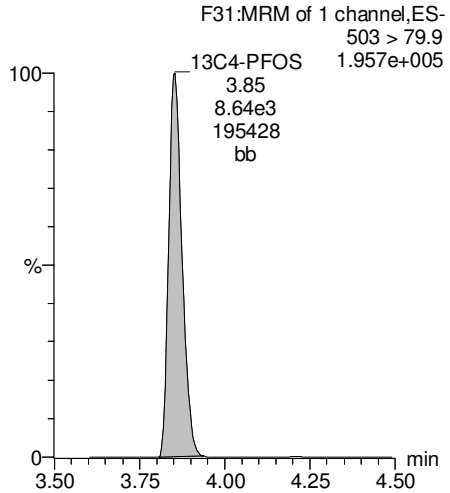
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-35.qld

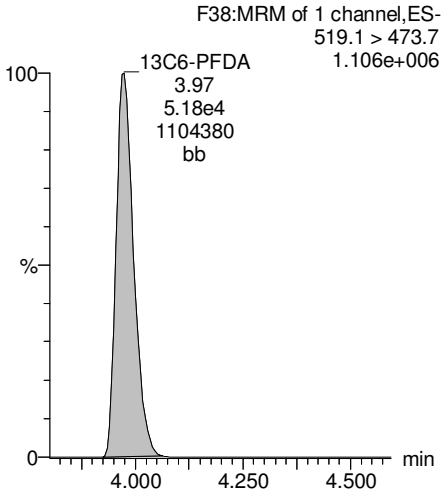
Last Altered: Tuesday, August 22, 2017 11:58:25 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:58:52 Pacific Daylight Time

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

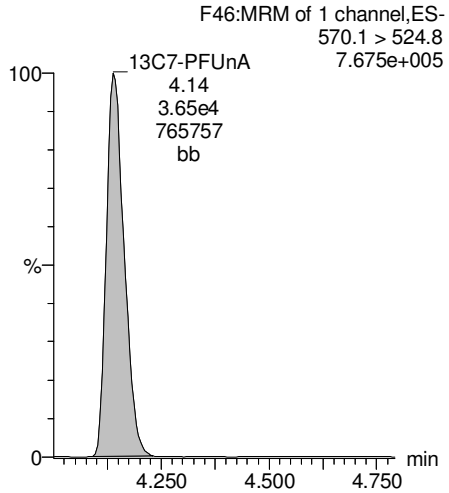
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:28:51 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	7.31e3	4.98e3	0.115		3.06	2.93	18.4	92.2	
2	4	PFHxA	313.2 > 268.9	4.58e4	1.62e4	0.115		3.14	3.15	14.2	93.0	
3	5	PFHpA	363 > 318.9	3.70e4	3.87e4	0.115		3.40	3.42	12.0	88.0	
4	6	PFHxS	398.9 > 79.6	4.55e3	3.46e3	0.115		3.58	3.49	16.5	81.3	
5	8	PFOA	413 > 368.7	4.21e4	4.49e4	0.115		3.71	3.62	11.7	102	
6	10	PFNA	462.9 > 418.8	3.74e4	4.02e4	0.115		3.75	3.80	11.6	98.7	
7	12	PFOS	499 > 79.9	6.95e3	7.18e3	0.115		3.96	3.85	12.1	98.9	
8	13	PFDA	513 > 468.8	3.54e4	3.64e4	0.115		3.96	3.97	12.2	92.6	
9	15	N-MeFOSAA	570.1 > 419	5.59e3	4.71e3	0.115		4.11	4.00	193	86.7	
10	16	N-EtFOSAA	584.2 > 419	4.04e3	3.95e3	0.115		4.18	4.07	166	92.0	
11	17	PFUnA	562.9 > 518.9	1.47e4	2.26e4	0.115		4.12	4.14	8.14	86.7	
12	19	PFDoA	612.9 > 318.8	6.02e2	9.47e2	0.115		4.28	4.30	7.94	82.3	

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:29:05 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9	5.52e3	9.47e2	0.115		4.45	4.47	72.8	62.1	
2	22	PFTeDA	712.9 > 668.8	8.65e3	9.66e3	0.115		4.66	4.65	11.2	85.0	
3	30	13C3-PFBS	302 > 98.8	4.98e3	5.58e4	0.115	0.033	2.94	2.92	0.446	118	108.6
4	31	13C2-PFHxA	315 > 269.8	1.62e4	5.58e4	0.115	0.304	3.14	3.15	1.45	41.5	95.5
5	32	13C4-PFHpA	367.2 > 321.8	3.87e4	5.58e4	0.115	0.384	3.40	3.41	3.47	78.5	72.3
6	33	18O2-PFHxS	403 > 102.6	3.46e3	8.45e3	0.115	0.417	3.47	3.48	5.11	106	98.1
7	35	13C2-PFOA	414.9 > 369.7	4.49e4	4.70e4	0.115	1.132	3.71	3.62	12.0	91.8	84.5
8	36	13C5-PFNA	468.2 > 422.9	4.02e4	5.39e4	0.115	0.946	3.75	3.80	9.31	85.5	78.7
9	38	13C8-PFOS	507 > 79.9	7.18e3	7.73e3	0.115	1.040	3.84	3.85	11.6	97.1	89.4
10	39	13C2-PFDA	515.1 > 469.9	3.64e4	4.57e4	0.115	0.971	3.96	3.97	9.95	89.1	82.0

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:30:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	4.71e3	2.89e4	0.115	0.018	3.99	4.00	2.04	994	70.4
2	42	d5-N-EtFOSAA	589.3 > 419	3.95e3	2.89e4	0.115	0.018	4.06	4.07	1.71	814	57.7
3	43	13C2-PFUnA	565 > 519.8	2.26e4	2.89e4	0.115	1.085	4.12	4.14	9.76	78.1	71.9
4	44	13C2-PFDoA	615 > 569.7	9.47e2	2.89e4	0.115	0.123	4.29	4.30	0.410	28.9	26.6
5	46	13C2-PFTeDA	714.8 > 669.6	9.66e3	2.89e4	0.115	0.798	4.66	4.65	4.17	45.5	41.9
6	52	13C5-PFHxA	318 > 272.9	5.58e4	5.58e4	0.115	1.000	3.14	3.15	5.00	43.4	100.0
7	53	13C3-PFHxS	401.9 > 79.9	8.45e3	8.45e3	0.115	1.000	3.47	3.49	12.5	109	100.0
8	54	13C8-PFOA	421.3 > 376	4.70e4	4.70e4	0.115	1.000	3.71	3.62	12.5	109	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.39e4	5.39e4	0.115	1.000	3.79	3.80	12.5	109	100.0
10	56	13C4-PFOS	503 > 79.9	7.73e3	7.73e3	0.115	1.000	3.84	3.85	12.5	109	100.0
11	57	13C6-PFDA	519.1 > 473.7	4.57e4	4.57e4	0.115	1.000	3.95	3.97	12.5	109	100.0
12	58	13C7-PFUnA	570.1 > 524.8	2.89e4	2.89e4	0.115	1.000	4.12	4.14	12.5	109	100.0
13	59	Total PFBS	299 > 79.7	7.31e3	4.98e3	0.115		3.06		18.4	92.2	
14	60	Total PFHxS	398.9 > 79.6	4.55e3	3.46e3	0.115		3.58		16.5	81.3	
15	61	Total PFOA	413 > 368.7	4.21e4	4.49e4	0.115		3.71		11.7	102	
16	62	Total PFOS	499 > 79.9	6.95e3	7.18e3	0.115		3.96		12.1	98.9	
17	63	Total N-Me-FOSAA	570.1 > 419	5.59e3	4.71e3	0.115		4.11		193	86.7	
18	64	Total N-EtFOSAA	584.2 > 419	4.04e3	3.95e3	0.115		4.18		166	92.0	

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:28:51 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.93	7314.246	4979.106	18.362	bb	92.2

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.49	4553.465	3456.203	16.468	MM	81.3

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.62	42061.836	44935.504	11.701	bb	102.3

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.85	6951.958	7182.522	12.099	MM	98.9

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15	N-MeFOSAA	570.1 > 419	4.00	5585.496	4709.580	192.723	bb	86.7

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	16	N-EtFOSAA	584.2 > 419	4.07	4035.003	3953.496	165.850	bb	92.0

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Vista Analytical Laboratory

Revd: MM 8/23/17

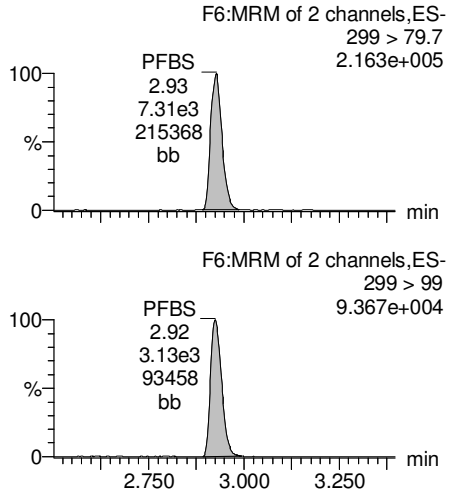
Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:28:51 Pacific Daylight Time

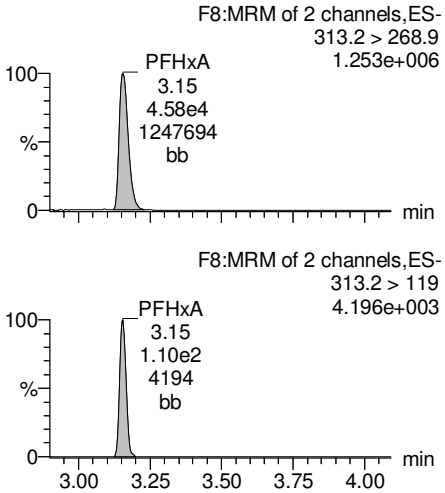
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

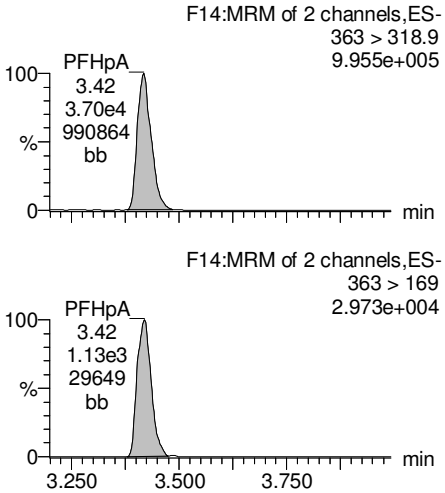
Total PFBS



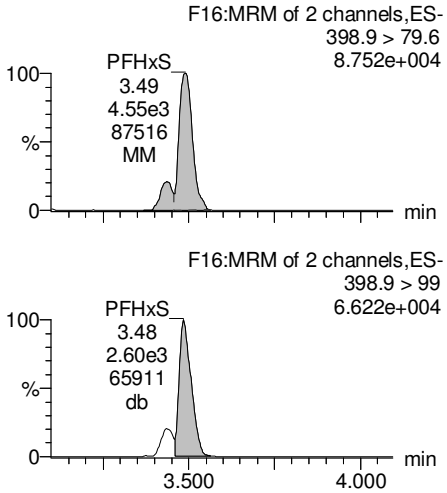
PFHxA



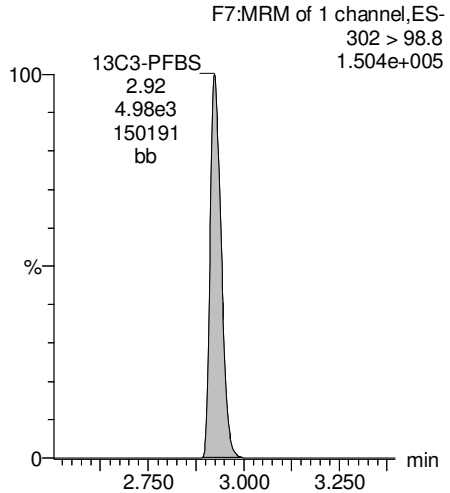
PFHpA



Total PFHxS



13C3-PFBS



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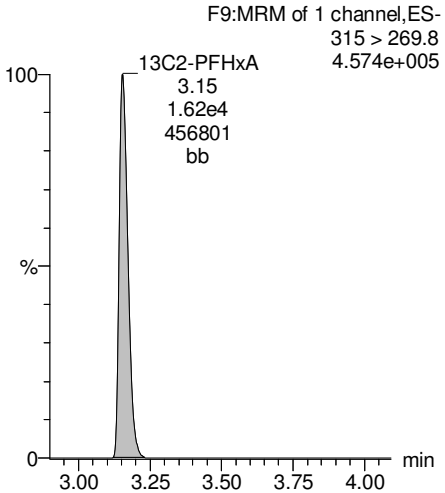

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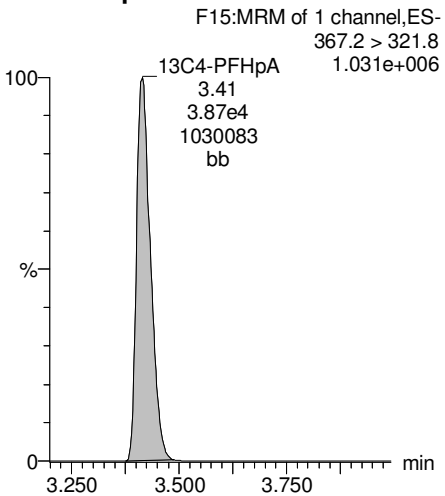
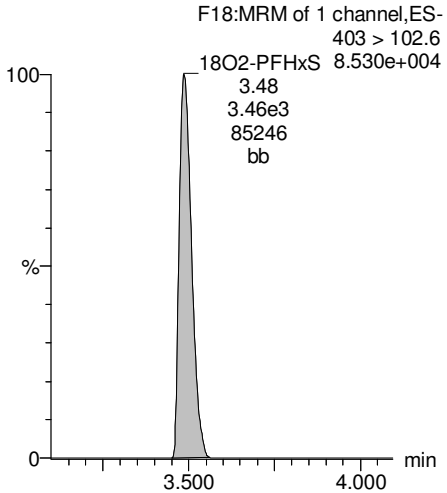


18O2-PFHxS



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Vista Analytical Laboratory

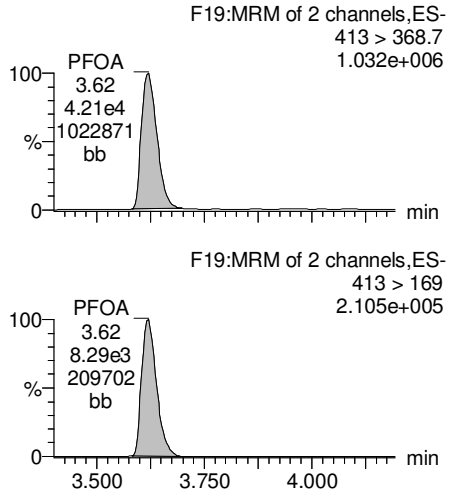
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:28:51 Pacific Daylight Time

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

Total PFOA



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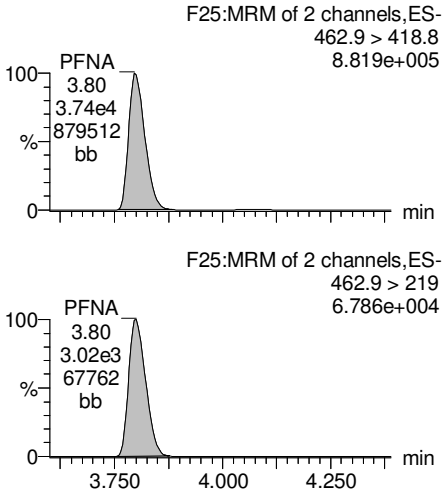
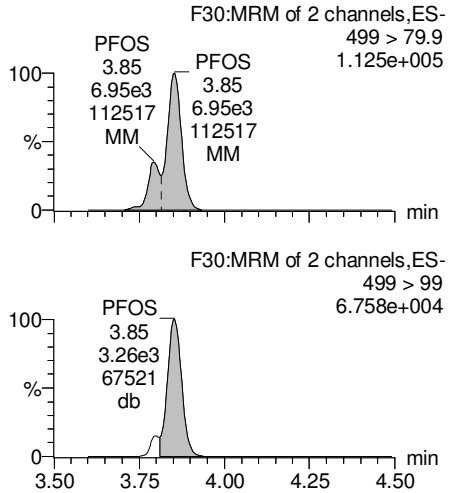
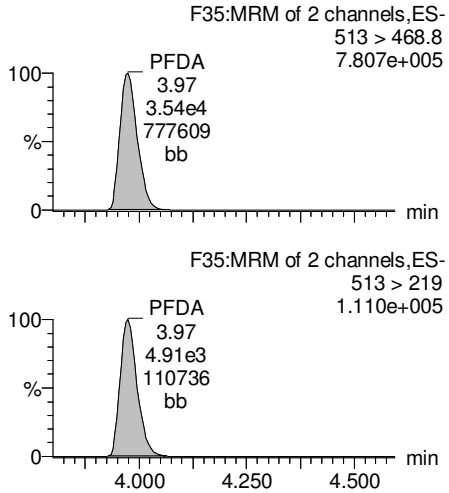


Total PFOS



PFDA



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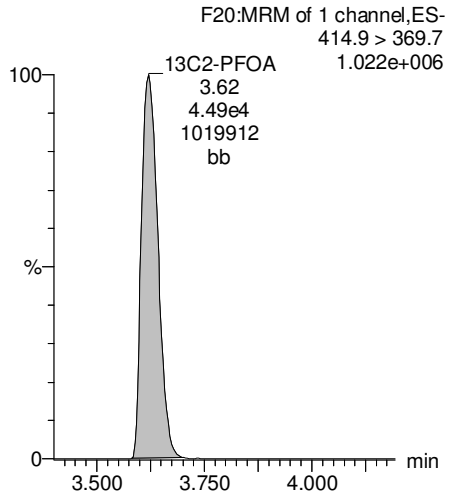
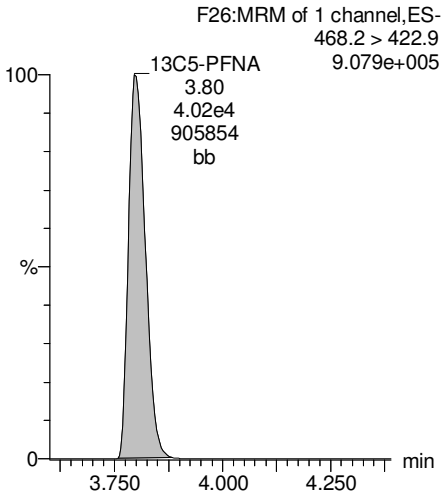
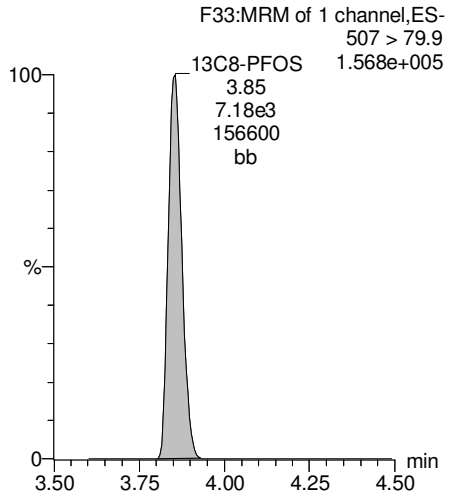


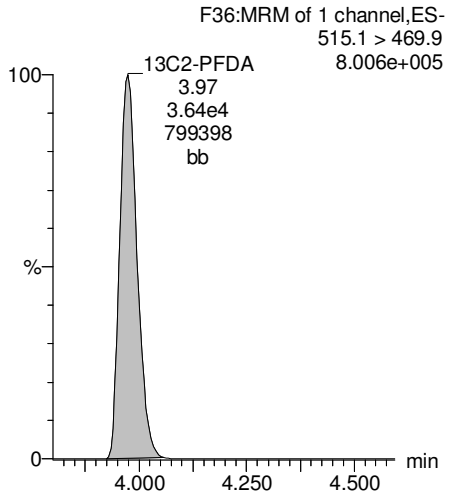
13C5-PFNA



13C8-PFOS



13C2-PFDA



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Vista Analytical Laboratory

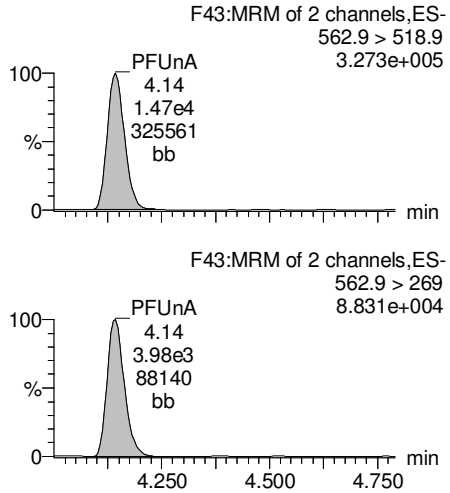
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

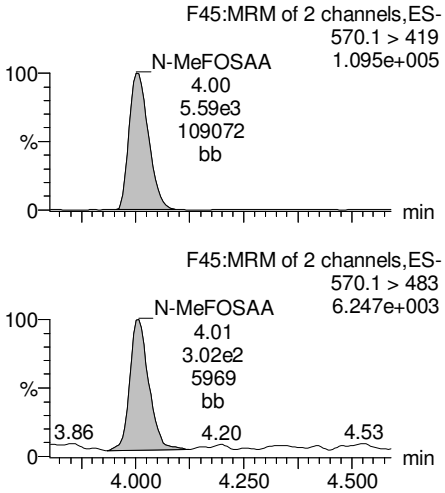
Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:28:51 Pacific Daylight Time

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

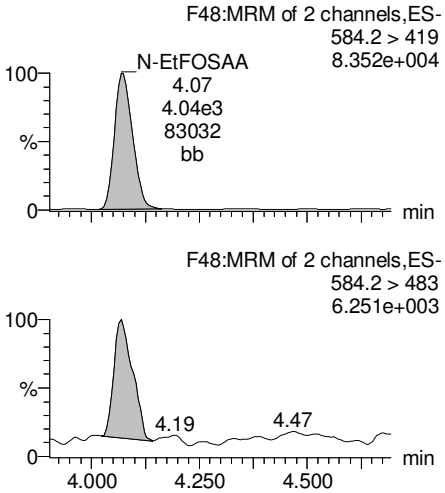
PFUnA



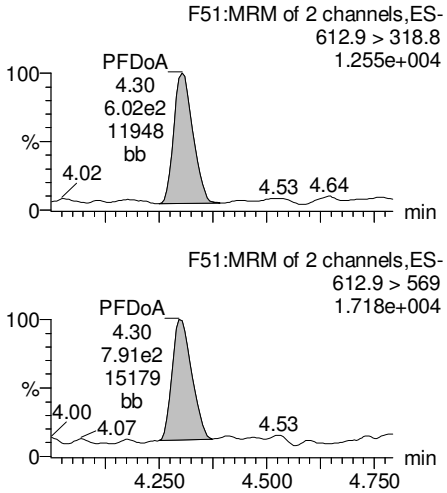
N-MeFOSAA



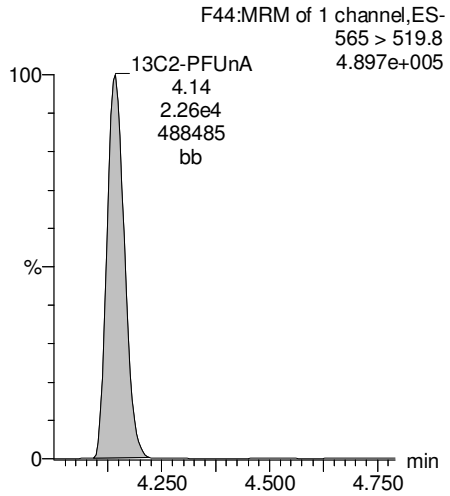
N-EtFOSAA



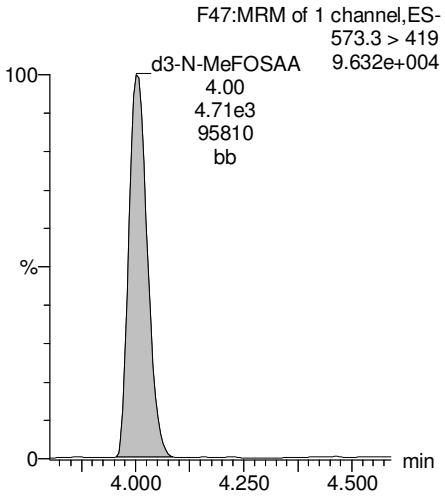
PFDoA



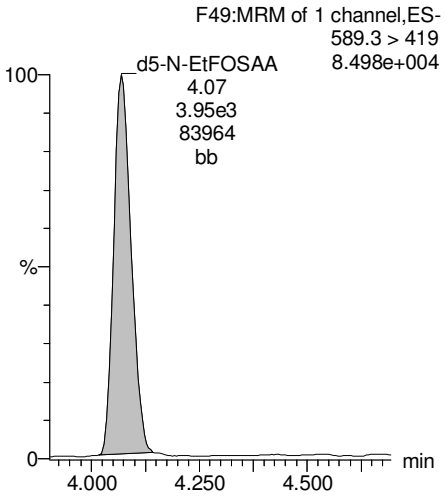
13C2-PFUnA



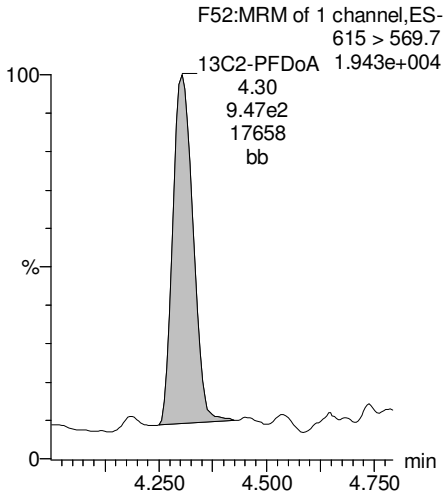
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



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Vista Analytical Laboratory

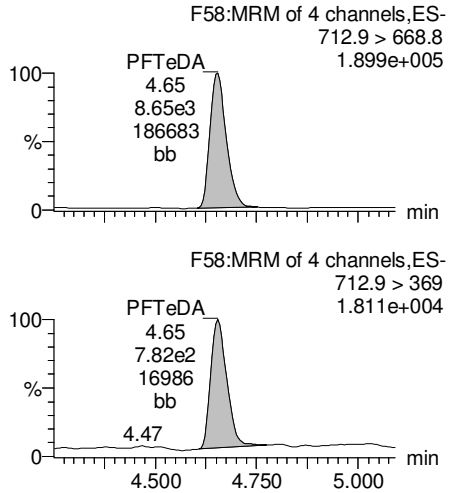
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

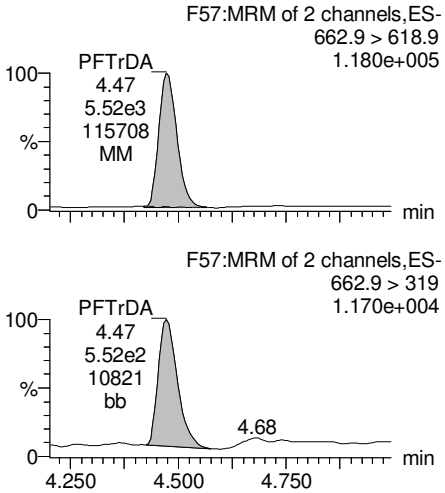
Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:28:51 Pacific Daylight Time

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

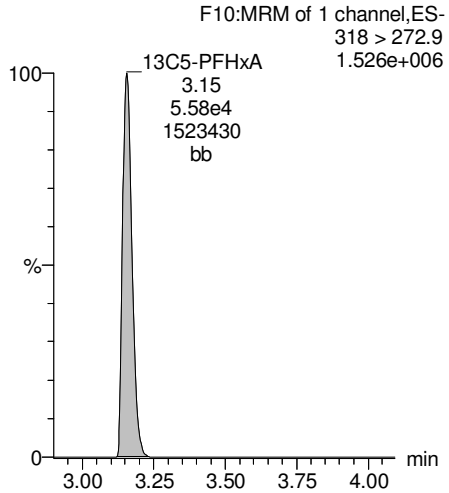
PFTeDA



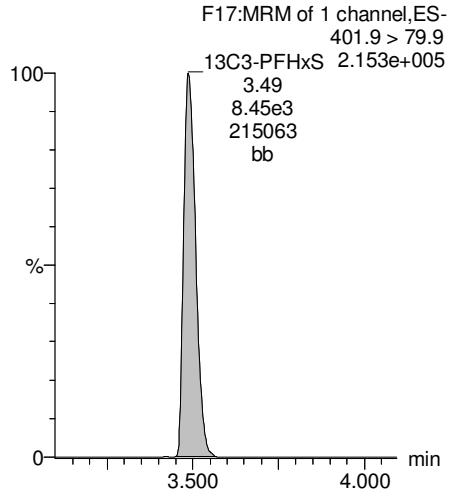
PFTrDA



13C5-PFHxA



13C3-PFHxS



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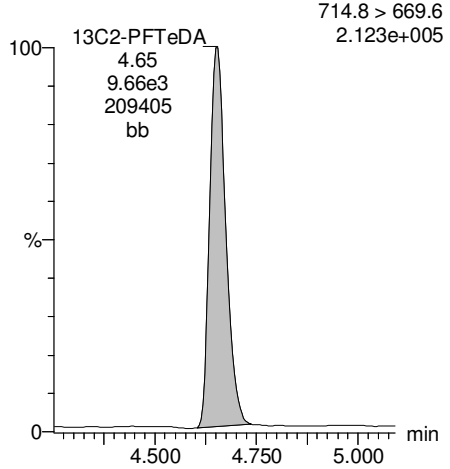
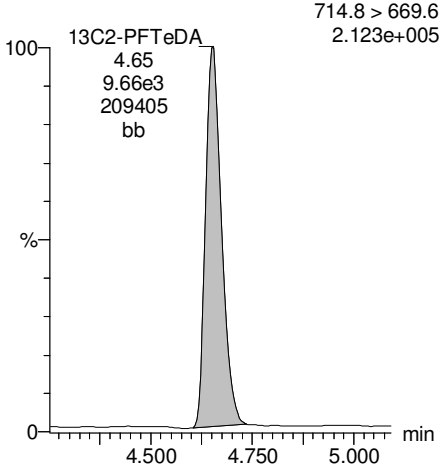
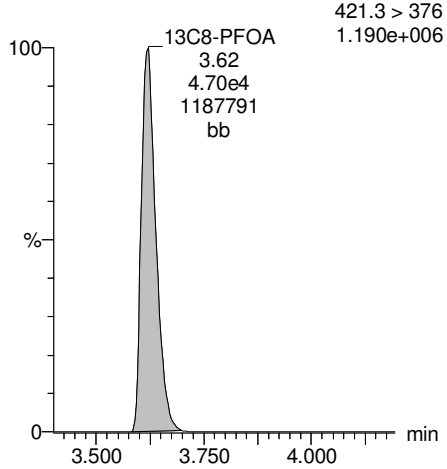


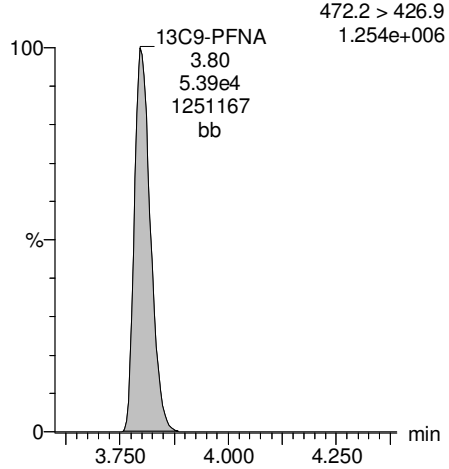
13C2-PFTeDA



13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

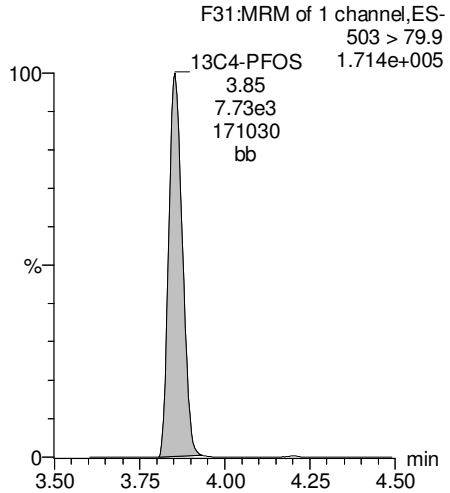
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-32.qld

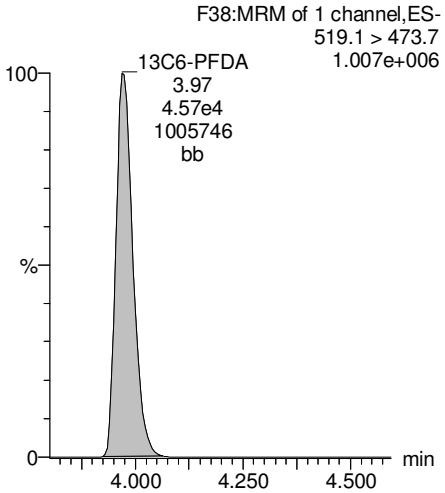
Last Altered: Tuesday, August 22, 2017 10:27:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 10:28:51 Pacific Daylight Time

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

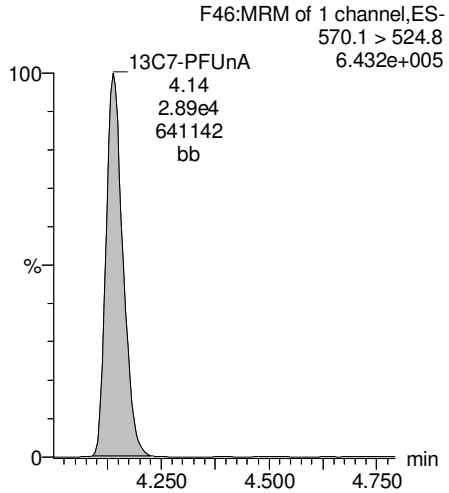
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:35 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-14-17.mdb 15 Aug 2017 11:47:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	7.83e3	5.47e3	0.118		3.06	2.93	17.9	87.6	
2	4	PFHxA	313.2 > 268.9	5.29e4	1.82e4	0.118		3.26	3.15	14.6	93.4	
3	5	PFHpA	363 > 318.9	4.10e4	4.23e4	0.118		3.51	3.41	12.1	86.9	
4	6	PFHxS	398.9 > 79.6	5.35e3	3.73e3	0.118		3.58	3.48	17.9	86.3	
5	8	PFOA	413 > 368.7	4.57e4	5.32e4	0.118		3.71	3.62	10.7	91.5	
6	10	PFNA	462.9 > 418.8	4.38e4	4.74e4	0.118		3.90	3.80	11.6	95.4	
7	12	PFOS	499 > 79.9	8.53e3	8.60e3	0.118		3.96	3.85	12.4	98.9	
8	13	PFDA	513 > 468.8	4.13e4	4.06e4	0.118		4.08	3.97	12.7	94.5	
9	15	N-MeFOSAA	570.1 > 419	7.98e3	6.40e3	0.118		4.11	4.00	203	88.9	
10	16	N-EtFOSAA	584.2 > 419	5.57e3	5.32e3	0.118		4.18	4.07	170	92.0	
11	17	PFUnA	562.9 > 518.9	2.16e4	3.52e4	0.118		4.25	4.14	7.67	79.5	
12	19	PFDoA	612.9 > 318.8	1.21e3	1.77e3	0.118		4.42	4.30	8.52	86.2	

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-14-17.mdb 15 Aug 2017 11:47:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9	1.08e4	1.77e3	0.118		4.59	4.47	76.0	63.2	
2	22	PFTeDA	712.9 > 668.8	1.32e4	1.51e4	0.118		4.66	4.65	10.9	80.5	
3	30	13C3-PFBS	302 > 98.8	5.47e3	6.37e4	0.118	0.033	2.94	2.92	0.429	111	104.5
4	31	13C2-PFHxA	315 > 269.8	1.82e4	6.37e4	0.118	0.304	3.26	3.15	1.43	39.8	94.0
5	32	13C4-PFHpA	367.2 > 321.8	4.23e4	6.37e4	0.118	0.384	3.51	3.41	3.32	73.3	69.2
6	33	18O2-PFHxS	403 > 102.6	3.73e3	9.55e3	0.118	0.417	3.58	3.48	4.88	99.2	93.7
7	35	13C2-PFOA	414.9 > 369.7	5.32e4	5.12e4	0.118	1.132	3.71	3.62	13.0	97.1	91.7
8	36	13C5-PFNA	468.2 > 422.9	4.74e4	6.15e4	0.118	0.946	3.90	3.80	9.63	86.3	81.5
9	38	13C8-PFOS	507 > 79.9	8.60e3	8.58e3	0.118	1.040	3.96	3.85	12.5	102	96.4
10	39	13C2-PFDA	515.1 > 469.9	4.06e4	5.41e4	0.118	0.971	4.08	3.97	9.37	81.7	77.2

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

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Printed: Tuesday, August 22, 2017 11:18:01 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	6.40e3	3.57e4	0.118	0.018	4.11	4.00	2.24	1070	77.5
2	42	d5-N-EtFOSAA	589.3 > 419	5.32e3	3.57e4	0.118	0.018	4.18	4.07	1.86	866	62.9
3	43	13C2-PFUnA	565 > 519.8	3.52e4	3.57e4	0.118	1.085	4.25	4.14	12.3	96.3	91.0
4	44	13C2-PFDoA	615 > 569.7	1.77e3	3.57e4	0.118	0.123	4.42	4.30	0.621	42.7	40.3
5	46	13C2-PFTeDA	714.8 > 669.6	1.51e4	3.57e4	0.118	0.798	4.66	4.65	5.30	56.3	53.2
6	52	13C5-PFHxA	318 > 272.9	6.37e4	6.37e4	0.118	1.000	3.26	3.15	5.00	42.4	100.0
7	53	13C3-PFHxS	401.9 > 79.9	9.55e3	9.55e3	0.118	1.000	3.58	3.48	12.5	106	100.0
8	54	13C8-PFOA	421.3 > 376	5.12e4	5.12e4	0.118	1.000	3.71	3.62	12.5	106	100.0
9	55	13C9-PFNA	472.2 > 426.9	6.15e4	6.15e4	0.118	1.000	3.90	3.80	12.5	106	100.0
10	56	13C4-PFOS	503 > 79.9	8.58e3	8.58e3	0.118	1.000	3.96	3.85	12.5	106	100.0
11	57	13C6-PFDA	519.1 > 473.7	5.41e4	5.41e4	0.118	1.000	4.08	3.97	12.5	106	100.0
12	58	13C7-PFUnA	570.1 > 524.8	3.57e4	3.57e4	0.118	1.000	4.25	4.14	12.5	106	100.0
13	59	Total PFBS	299 > 79.7	7.83e3	5.47e3	0.118		3.06		17.9	87.6	
14	60	Total PFHxS	398.9 > 79.6	5.35e3	3.73e3	0.118		3.58		17.9	86.3	
15	61	Total PFOA	413 > 368.7	4.57e4	5.32e4	0.118		3.71		10.7	91.5	
16	62	Total PFOS	499 > 79.9	8.53e3	8.60e3	0.118		3.96		12.4	98.9	
17	63	Total N-Me-FOSAA	570.1 > 419	7.98e3	6.40e3	0.118		4.11		203	88.9	
18	64	Total N-EtFOSAA	584.2 > 419	5.57e3	5.32e3	0.118		4.18		170	92.0	

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:35 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-14-17.mdb 15 Aug 2017 11:47:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.93	7826.653	5465.813	17.899	bb	87.6

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.48	5348.923	3729.469	17.928	MM	86.3

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.62	45723.043	53188.961	10.745	bb	91.5

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.85	8534.475	8599.999	12.405	MM	98.9

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15	N-MeFOSAA	570.1 > 419	4.00	7978.496	6397.468	202.659	bb	88.9

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	16	N-EtFOSAA	584.2 > 419	4.07	5568.855	5321.767	170.045	bb	92.0

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Vista Analytical Laboratory

Revd: MM 8/23/17

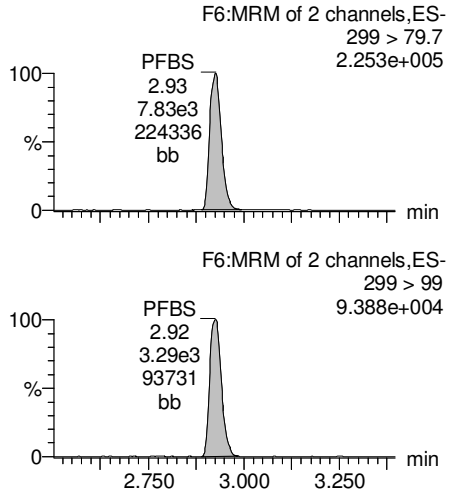
Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:35 Pacific Daylight Time

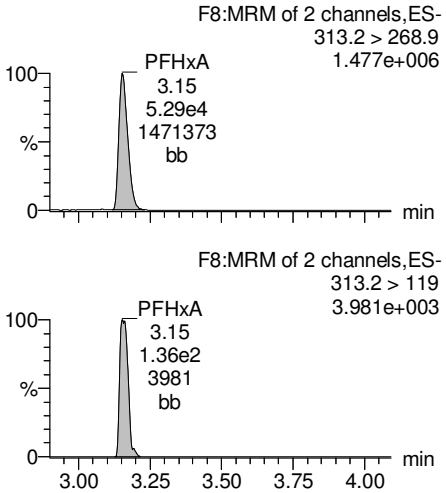
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-14-17.mdb 15 Aug 2017 11:47:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

Total PFBS



PFHxA



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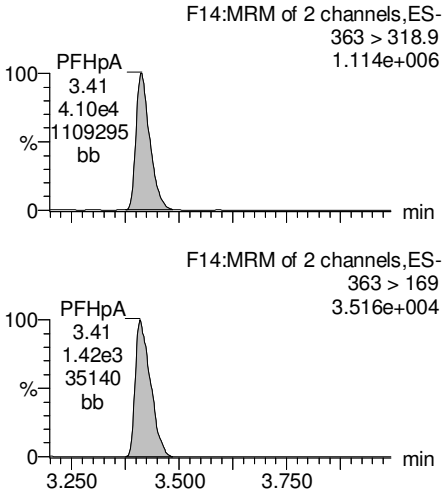

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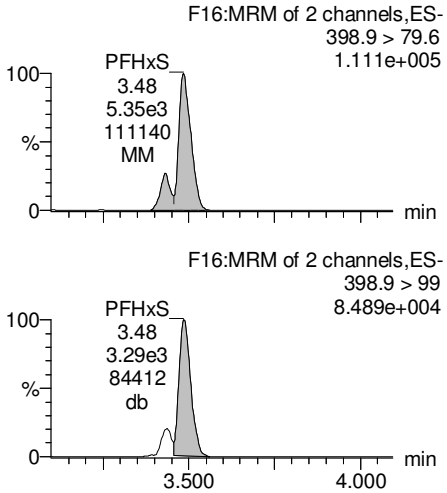

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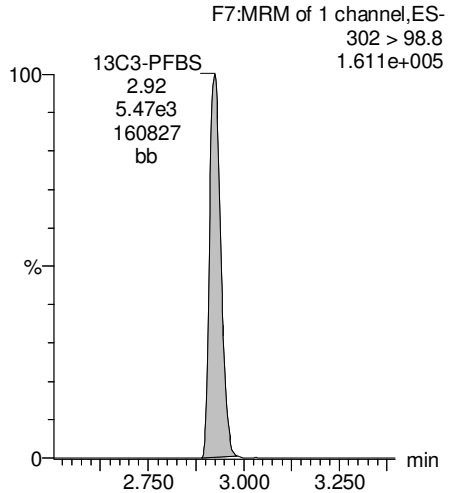

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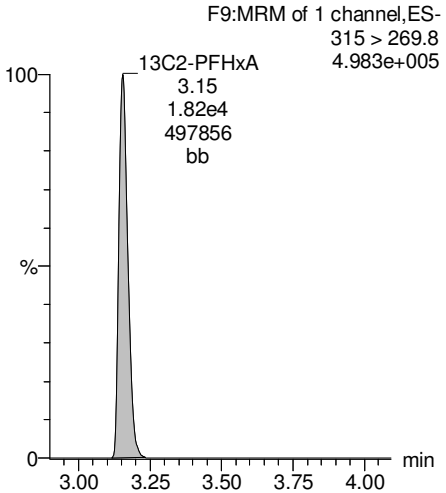

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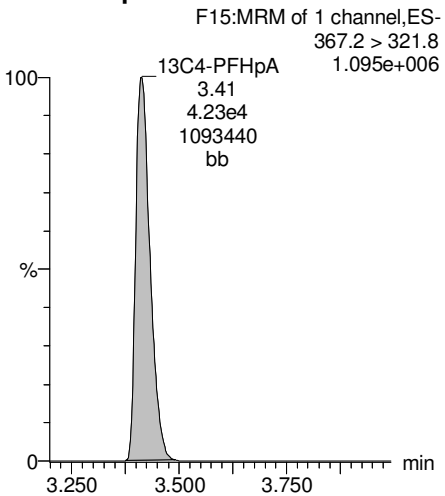

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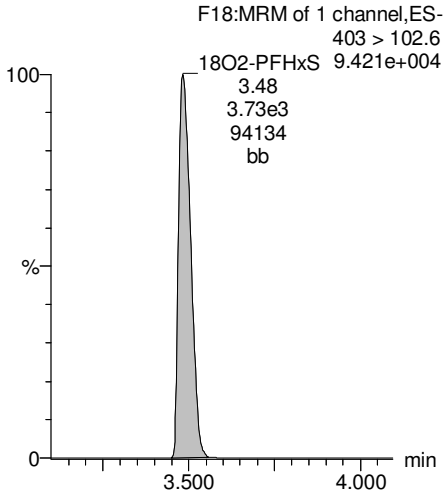

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Vista Analytical Laboratory

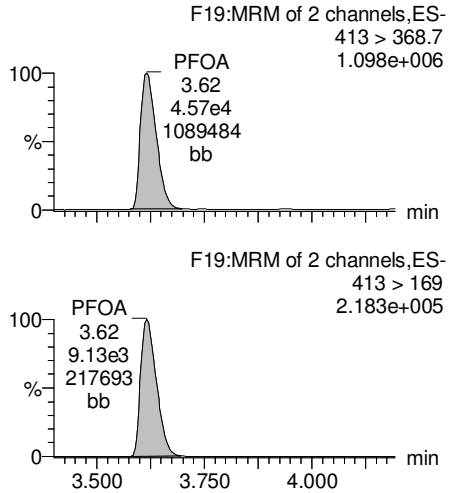
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:35 Pacific Daylight Time

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

Total PFOA



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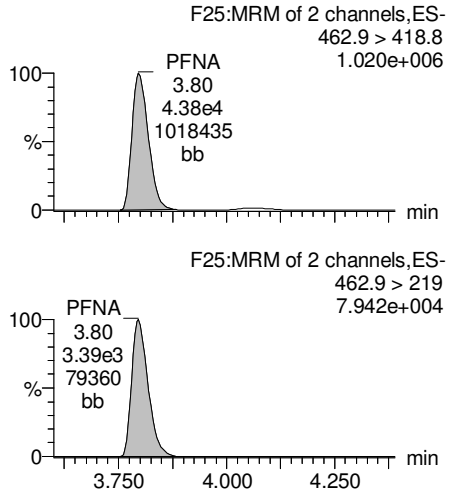
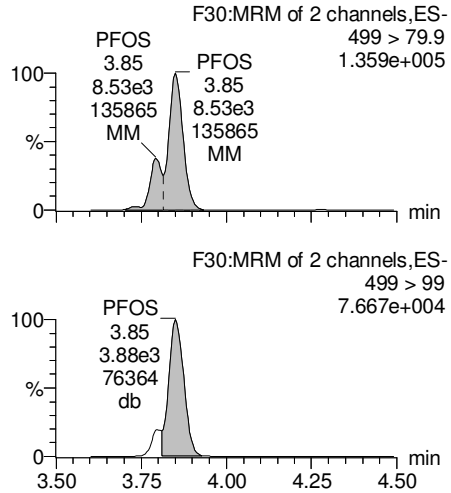
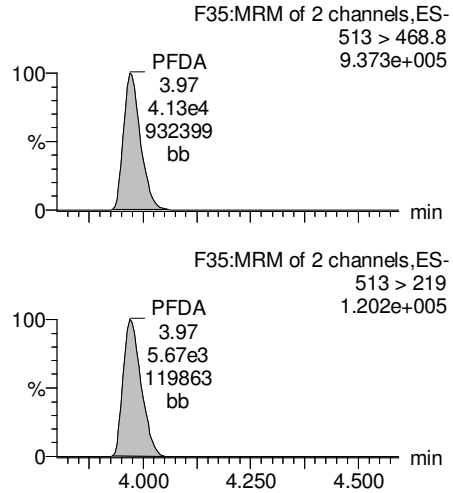


Total PFOS



PFDA



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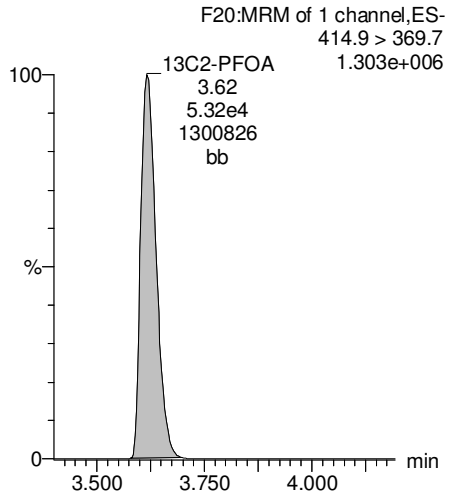
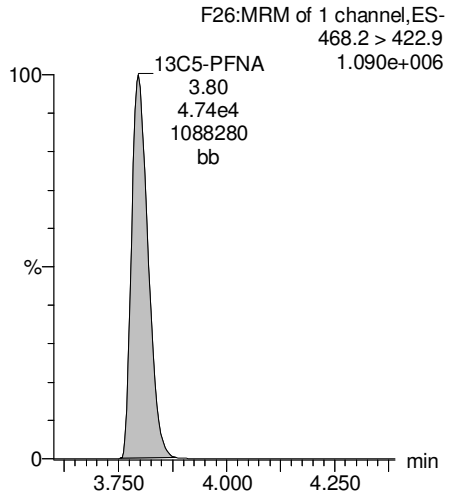
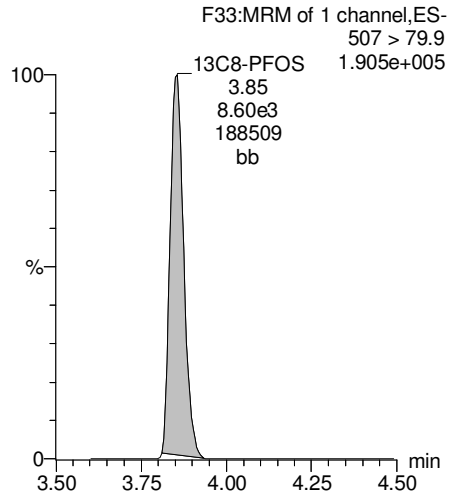


13C5-PFNA



13C8-PFOS



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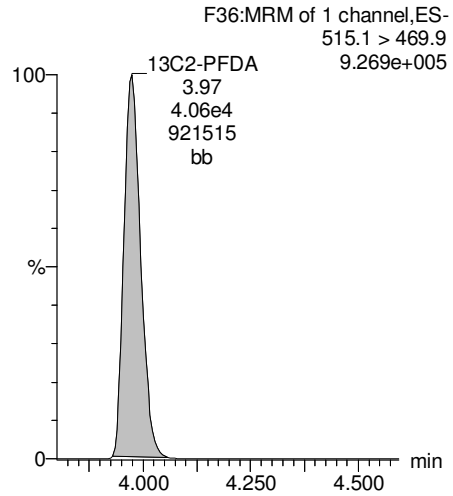

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Vista Analytical Laboratory

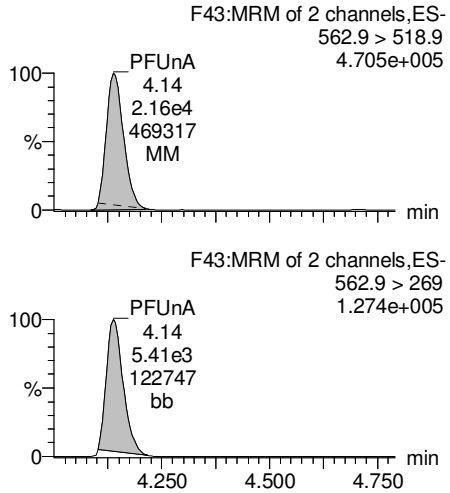
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

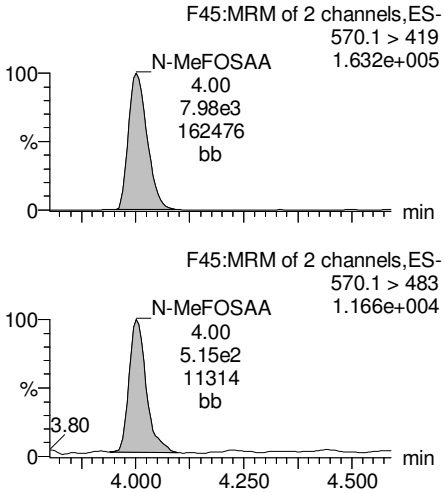
Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:35 Pacific Daylight Time

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

PFUnA



N-MeFOSAA



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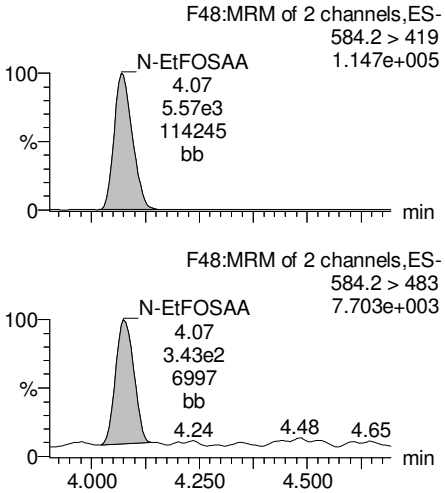

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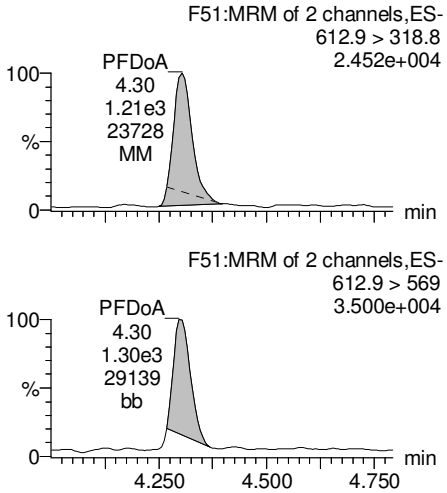

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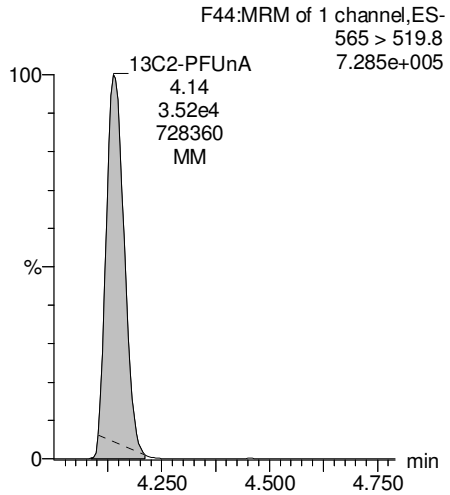

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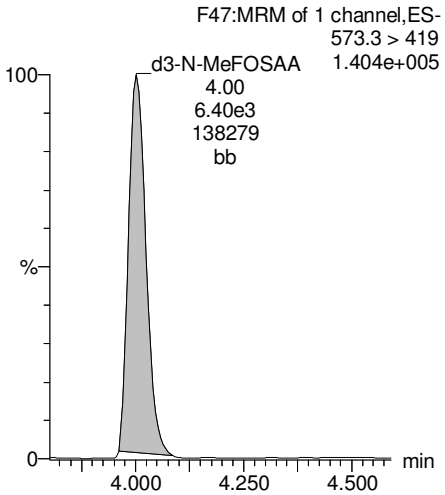

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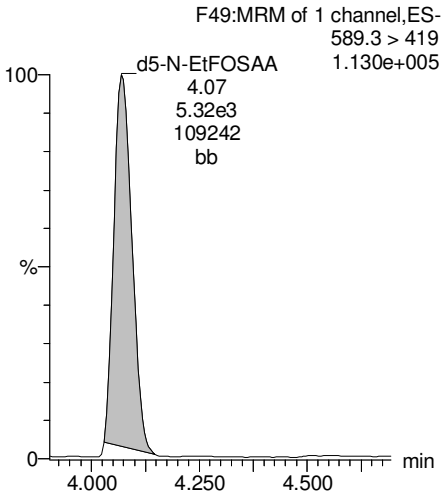

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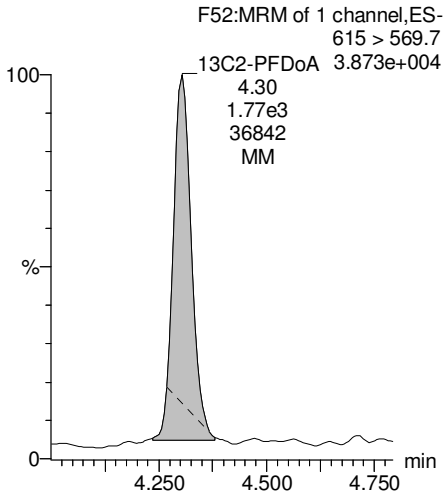


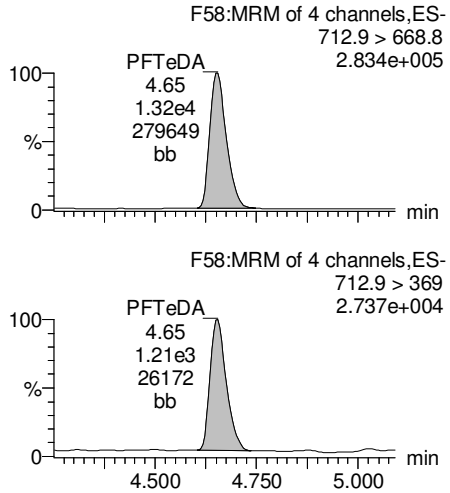
AC 8/22/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

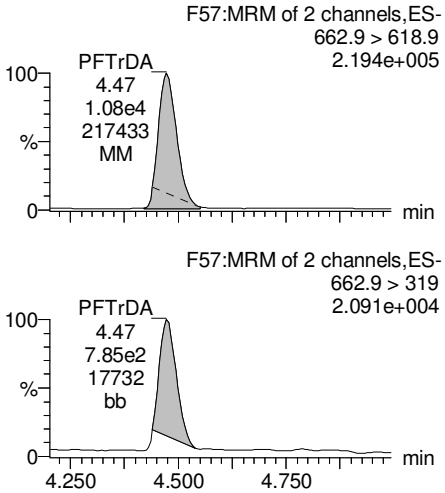
Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:35 Pacific Daylight Time

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

PFTeDA



PFTrDA



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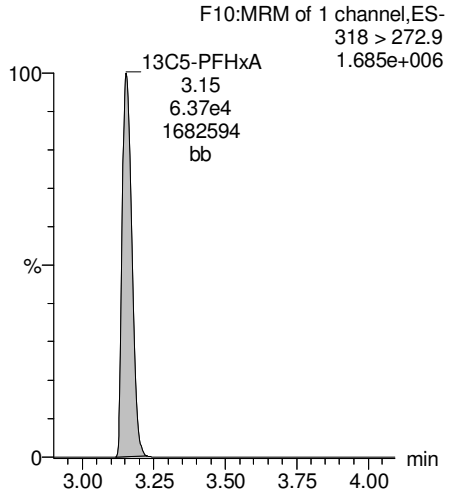

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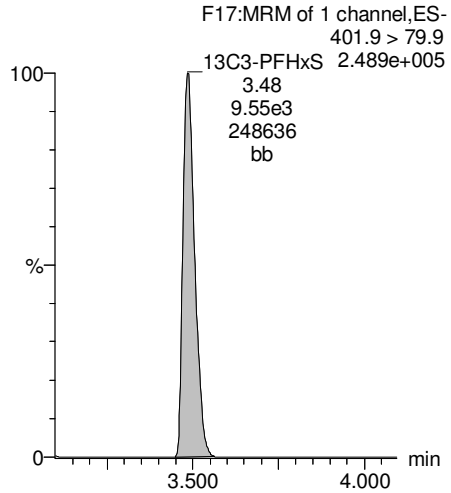

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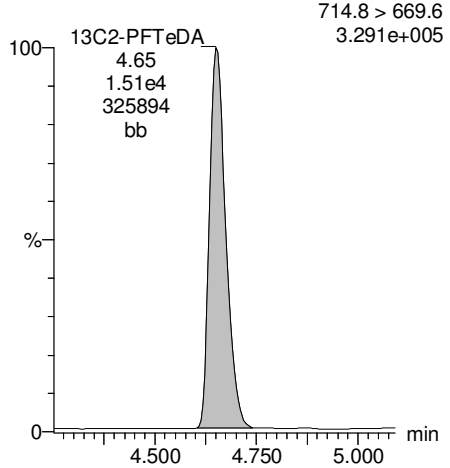

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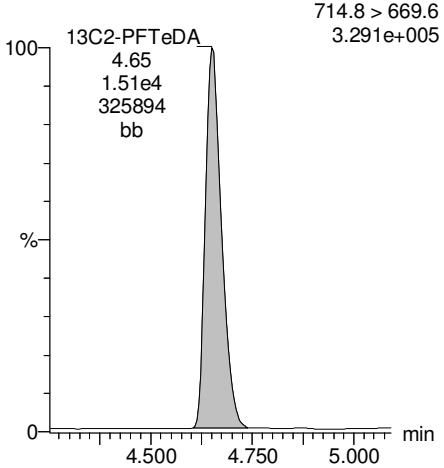
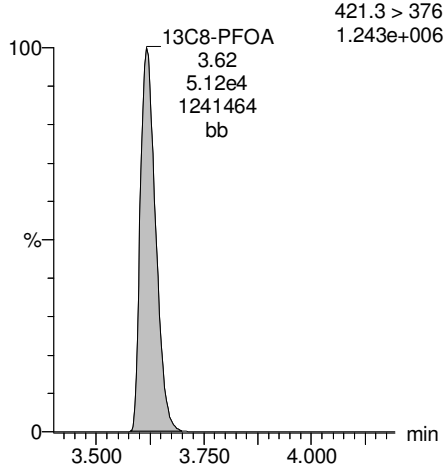


13C8-PFOA



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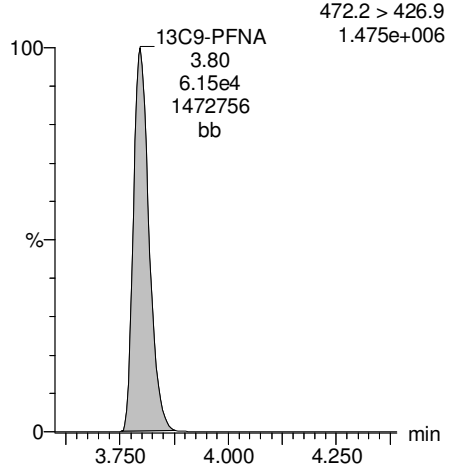

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Vista Analytical Laboratory

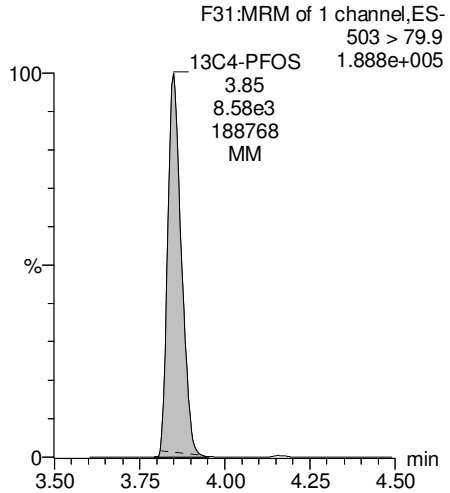
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-33.qld

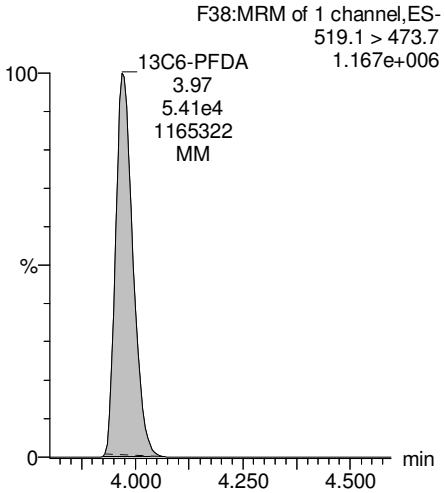
Last Altered: Tuesday, August 22, 2017 11:10:05 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 11:15:35 Pacific Daylight Time

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

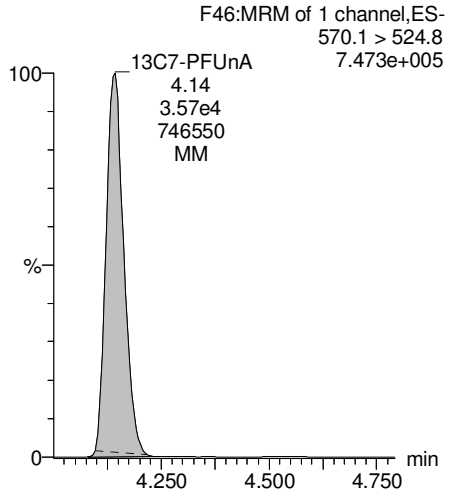
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:03:17 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	2.45e2	5.40e3	0.117		3.06	2.93	0.567	1.93	
2	4	PFHxA	313.2 > 268.9	2.64e3	1.82e4	0.117		3.14	3.15	0.724	0.580	
3	5	PFHpA	363 > 318.9	1.10e3	4.21e4	0.117		3.40	3.42	0.328		
4	6	PFHxS	398.9 > 79.6	7.52e2	3.70e3	0.117		3.58	3.48	2.54	12.8	
5	8	PFOA	413 > 368.7	5.05e3	5.62e4	0.117		3.71	3.62	1.12	8.45	
6	10	PFNA	462.9 > 418.8	1.29e3	4.55e4	0.117		3.75	3.80	0.353		
7	12	PFOS	499 > 79.9	1.17e3	8.47e3	0.117		3.86	3.85	1.73	14.2	
8	13	PFDA	513 > 468.8		3.71e4	0.117		3.96				
9	15	N-MeFOSAA	570.1 > 419		6.73e3	0.117		4.11				
10	16	N-EtFOSAA	584.2 > 419		5.42e3	0.117		4.18				
11	17	PFUnA	562.9 > 518.9		3.06e4	0.117		4.12				
12	19	PFDoA	612.9 > 318.8		1.66e3	0.117		4.28				

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:03:58 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.66e3	0.117		4.45				
2	22	PFTeDA	712.9 > 668.8		1.10e4	0.117		4.66				
3	30	13C3-PFBS	302 > 98.8	5.40e3	5.54e4	0.117	0.033	2.94	2.92	0.488	127	118.7
4	31	13C2-PFHxA	315 > 269.8	1.82e4	5.54e4	0.117	0.304	3.14	3.15	1.65	46.2	108.4
5	32	13C4-PFHpA	367.2 > 321.8	4.21e4	5.54e4	0.117	0.384	3.40	3.41	3.80	84.5	79.2
6	33	18O2-PFHxS	403 > 102.6	3.70e3	8.57e3	0.117	0.417	3.47	3.48	5.39	110	103.4
7	35	13C2-PFOA	414.9 > 369.7	5.62e4	4.70e4	0.117	1.132	3.71	3.62	15.0	113	105.7
8	36	13C5-PFNA	468.2 > 422.9	4.55e4	5.33e4	0.117	0.946	3.75	3.80	10.7	96.2	90.2
9	38	13C8-PFOS	507 > 79.9	8.47e3	7.72e3	0.117	1.040	3.84	3.85	13.7	113	105.6
10	39	13C2-PFDA	515.1 > 469.9	3.71e4	4.05e4	0.117	0.971	3.96	3.97	11.5	101	94.4

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	6.73e3	2.83e4	0.117	0.018	3.99	4.00	2.97	1420	102.7
2	42	d5-N-EtFOSAA	589.3 > 419	5.42e3	2.83e4	0.117	0.018	4.06	4.07	2.39	1120	80.8
3	43	13C2-PFUnA	565 > 519.8	3.06e4	2.83e4	0.117	1.085	4.12	4.14	13.5	106	99.5
4	44	13C2-PFDoA	615 > 569.7	1.66e3	2.83e4	0.117	0.123	4.29	4.30	0.733	50.8	47.6
5	46	13C2-PFTeDA	714.8 > 669.6	1.10e4	2.83e4	0.117	0.798	4.66	4.65	4.87	52.1	48.9
6	52	13C5-PFHxA	318 > 272.9	5.54e4	5.54e4	0.117	1.000	3.14	3.15	5.00	42.7	100.0
7	53	13C3-PFHxS	401.9 > 79.9	8.57e3	8.57e3	0.117	1.000	3.47	3.48	12.5	107	100.0
8	54	13C8-PFOA	421.3 > 376	4.70e4	4.70e4	0.117	1.000	3.71	3.62	12.5	107	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.33e4	5.33e4	0.117	1.000	3.79	3.80	12.5	107	100.0
10	56	13C4-PFOS	503 > 79.9	7.72e3	7.72e3	0.117	1.000	3.84	3.85	12.5	107	100.0
11	57	13C6-PFDA	519.1 > 473.7	4.05e4	4.05e4	0.117	1.000	3.95	3.97	12.5	107	100.0
12	58	13C7-PFUnA	570.1 > 524.8	2.83e4	2.83e4	0.117	1.000	4.12	4.14	12.5	107	100.0
13	59	Total PFBS	299 > 79.7	2.45e2	5.40e3	0.117		3.06		0.567	1.93	
14	60	Total PFHxS	398.9 > 79.6	7.52e2	3.70e3	0.117		3.58		2.54	12.8	
15	61	Total PFOA	413 > 368.7	5.49e3	5.62e4	0.117		3.71		1.12	8.45	
16	62	Total PFOS	499 > 79.9	1.17e3	8.47e3	0.117		3.96		1.73	14.2	
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	6.73e3	0.117		4.11		0.000		
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	5.42e3	0.117		4.18		0.000		

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.93	245.026	5402.479	0.567	MM	1.9

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.48	752.376	3696.245	2.544	MM	12.8

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	61	Total PFOA	413 > 368.7	3.57	437.722	56245.898	0.097	bdl	
2	8	PFOA	413 > 368.7	3.62	5051.074	56245.898	1.123	db	8.5

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.85	1174.879	8472.877	1.733	MM	14.2

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
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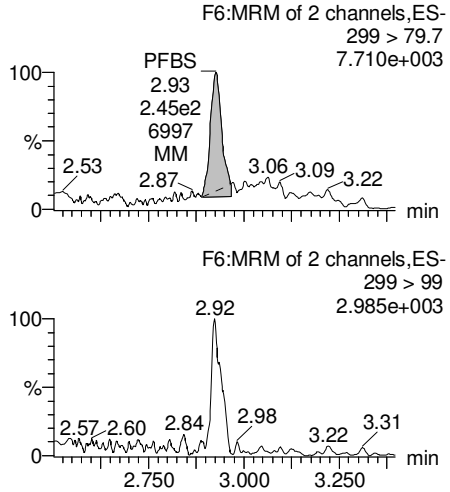
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

Total PFBS



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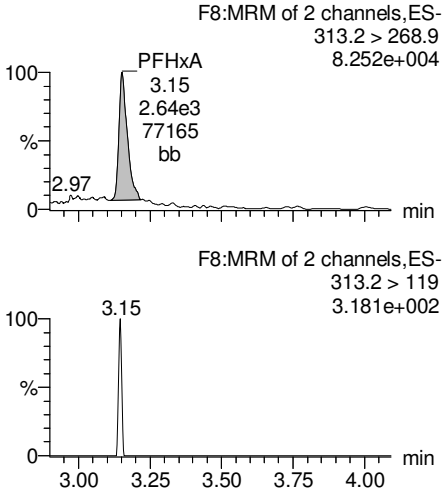

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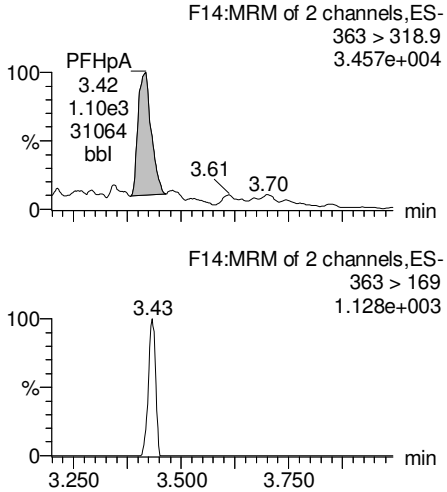
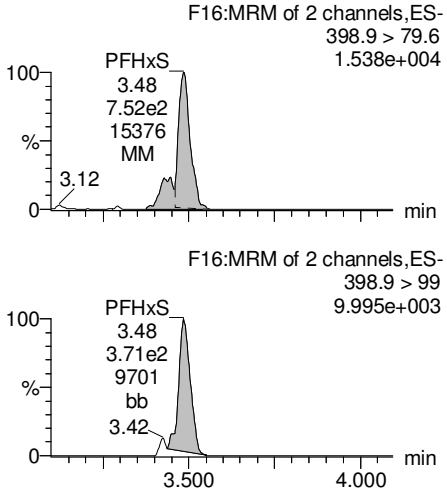


Total PFHxS



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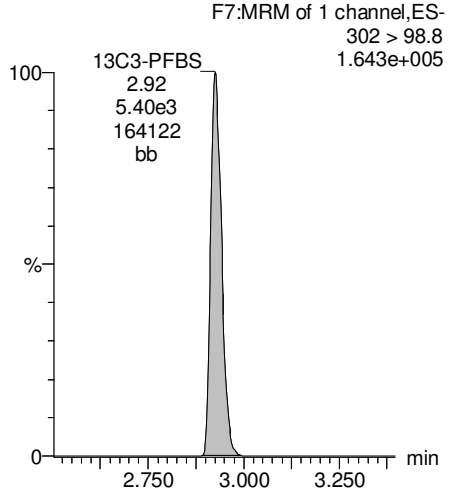

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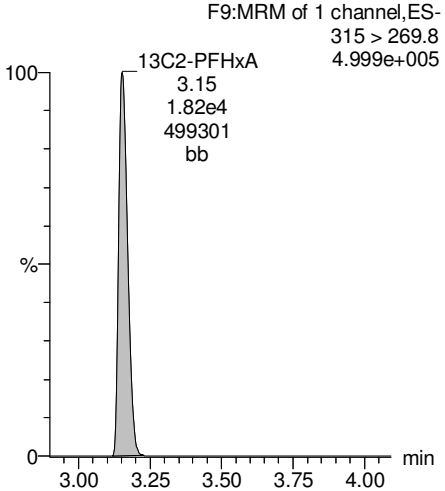

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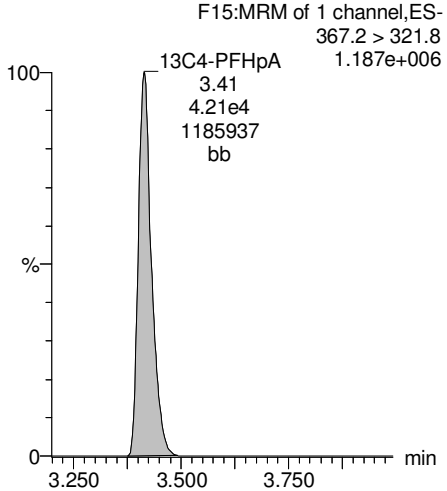

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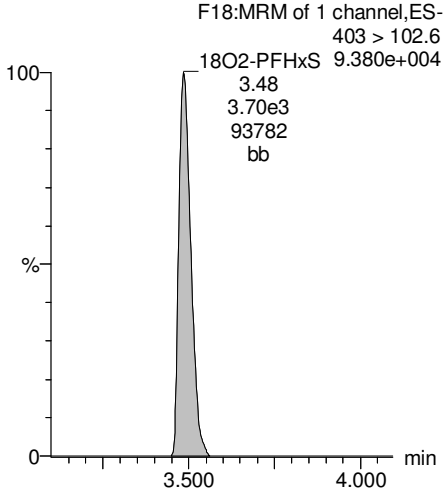

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
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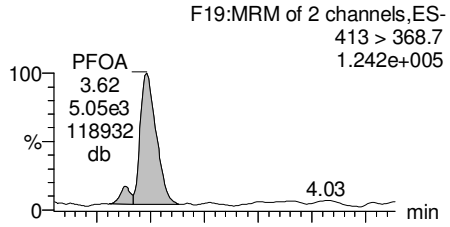
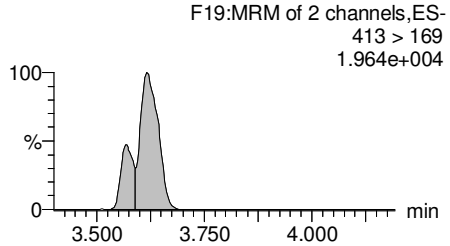
Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

Total PFOA





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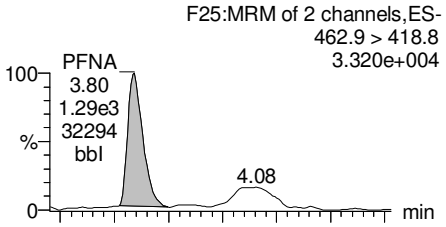
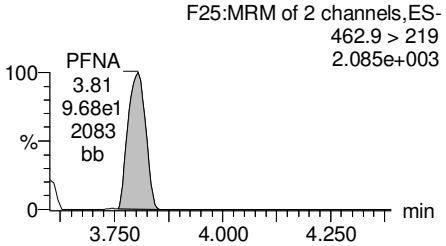
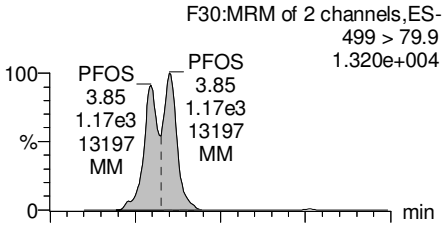
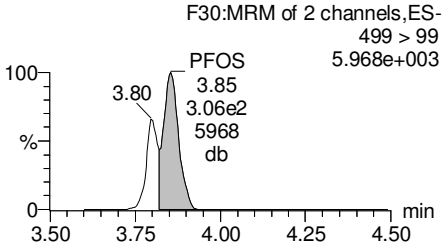




Total PFOS





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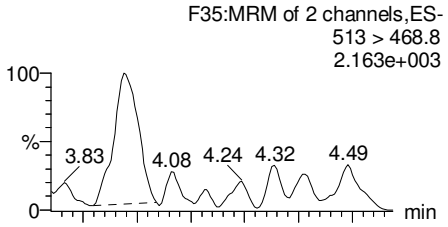

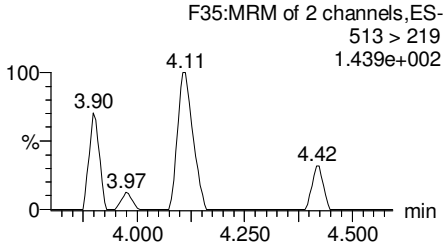

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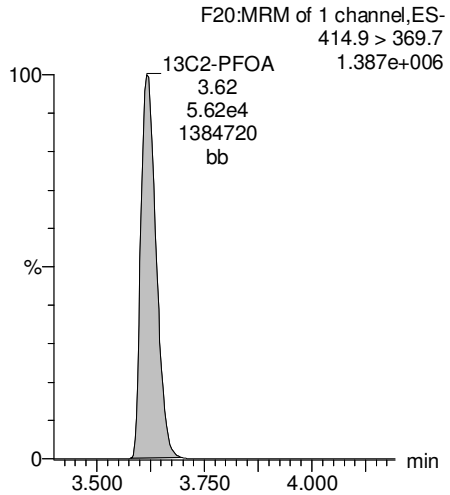

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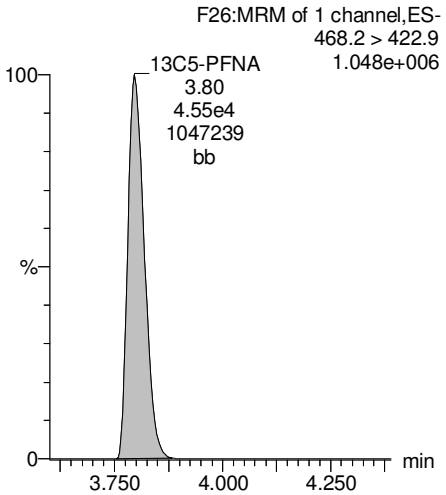

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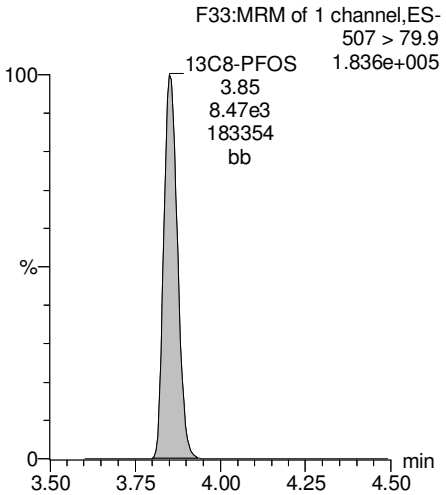

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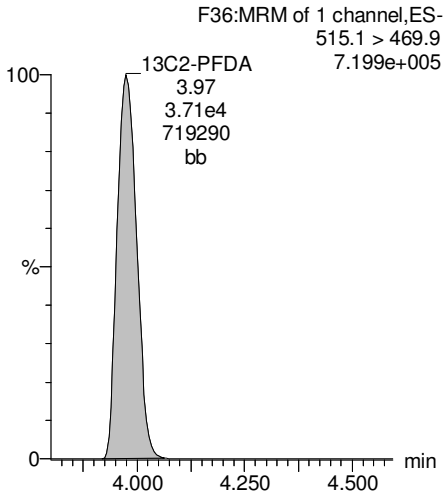

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Vista Analytical Laboratory

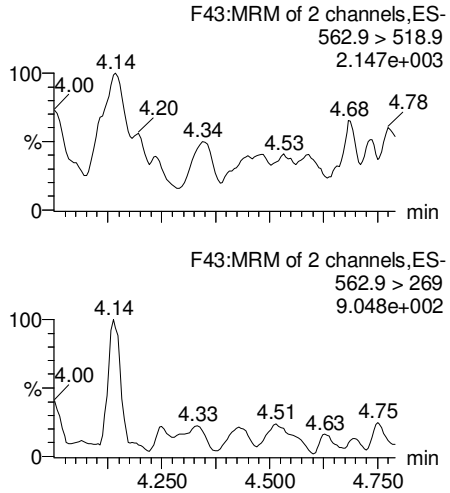
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:03:17 Pacific Daylight Time

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

PFUnA



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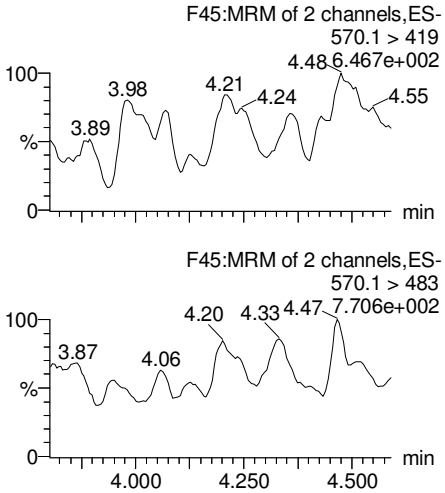

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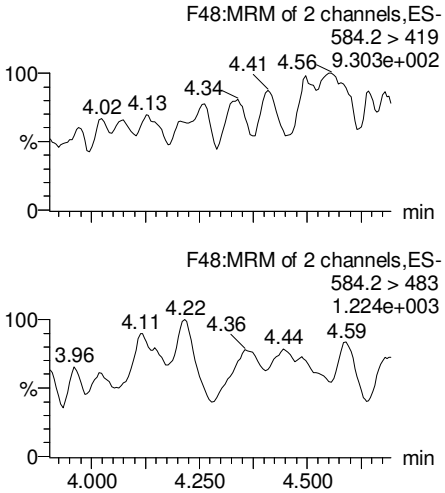

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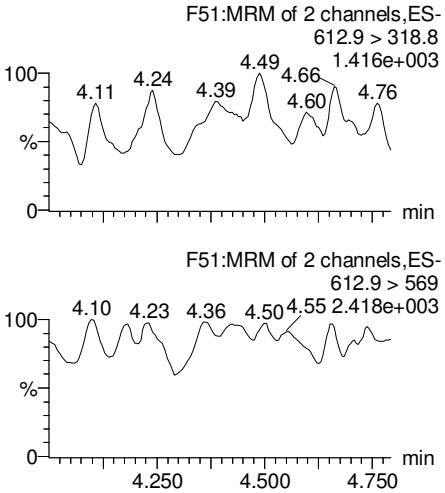

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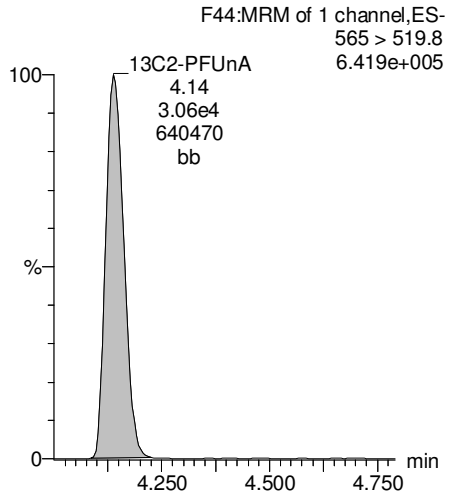

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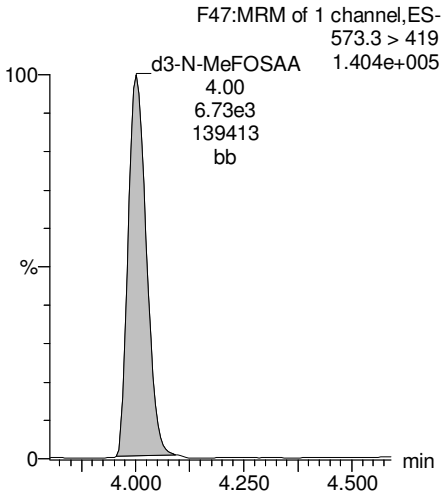

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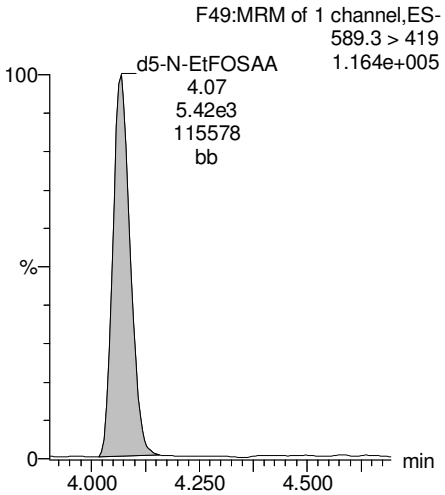
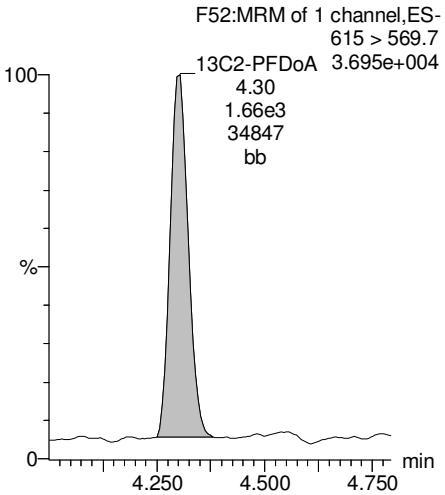


13C2-PFDoA



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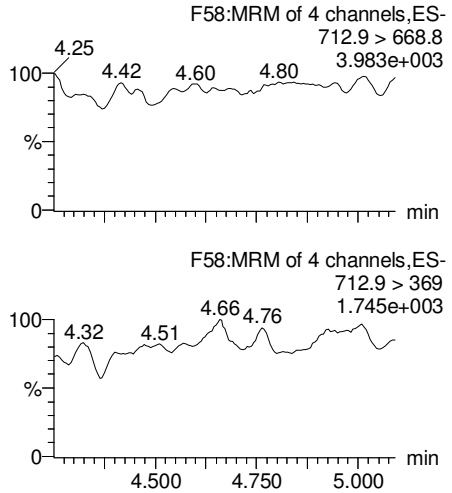
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:03:17 Pacific Daylight Time

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

PFTeDA



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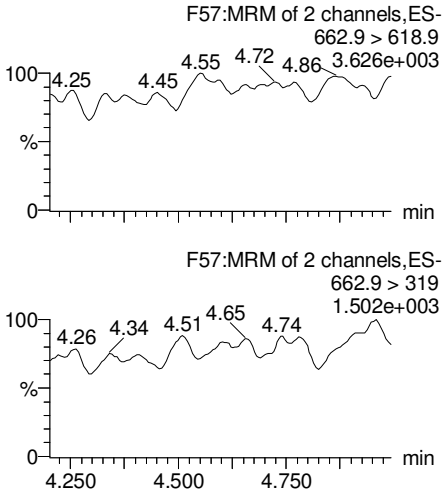
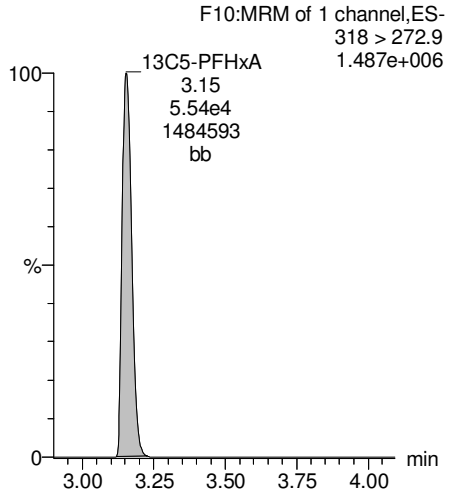
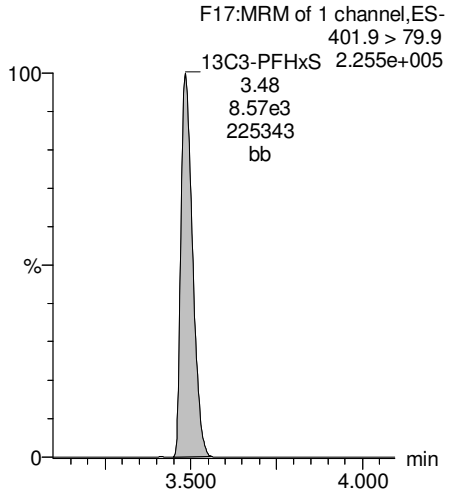


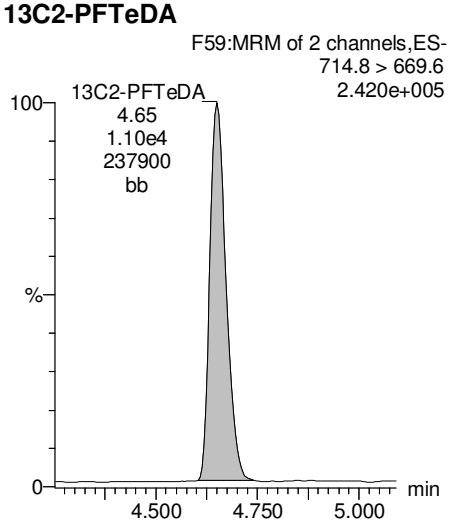
13C5-PFHxA



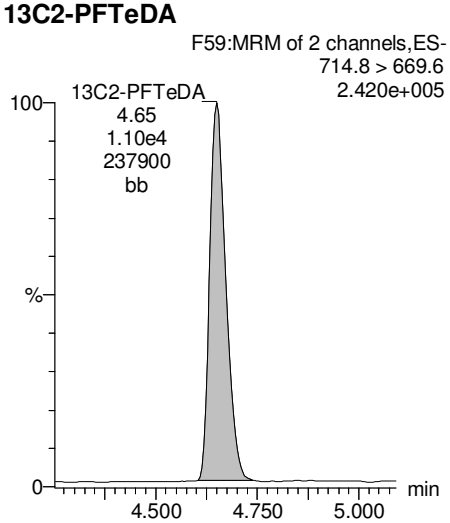
13C3-PFHxS



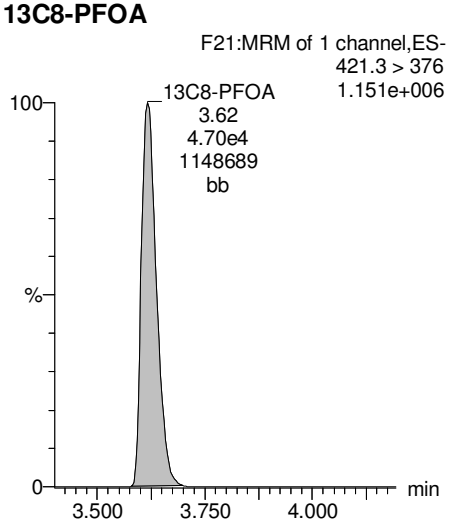
13C2-PFTeDA



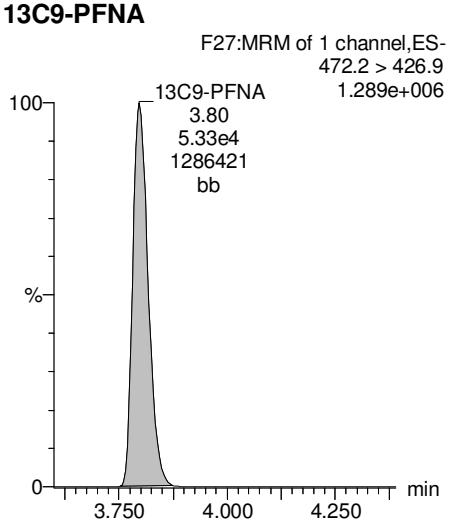
13C2-PFTeDA



13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

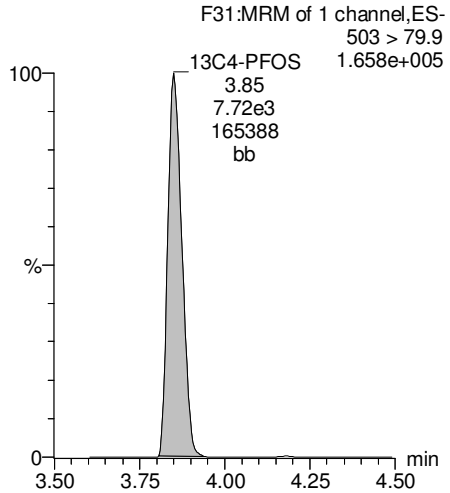
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-37.qld

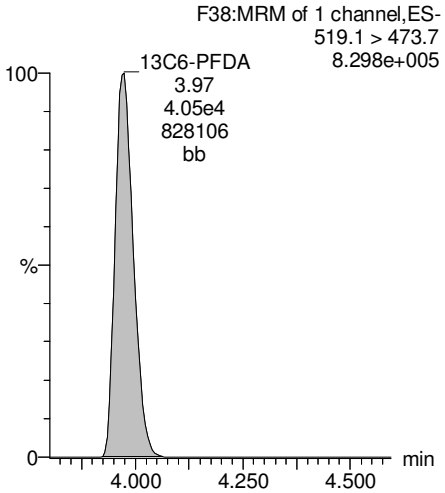
Last Altered: Tuesday, August 22, 2017 12:02:49 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:03:17 Pacific Daylight Time

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

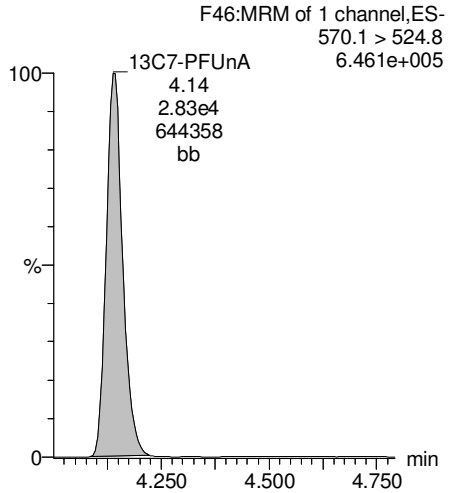
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:09:28 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.65e3	0.117		3.06				
2	4	PFHxA	313.2 > 268.9	2.25e4	1.81e4	0.117		3.14	3.15	6.22	37.6	
3	5	PFHpA	363 > 318.9	5.83e3	4.32e4	0.117		3.40	3.41	1.69	8.79	
4	6	PFHxS	398.9 > 79.6	4.75e2	3.94e3	0.117		3.58	3.48	1.50	7.79	
5	8	PFOA	413 > 368.7	1.88e4	5.40e4	0.117		3.71	3.62	4.36	36.5	
6	10	PFNA	462.9 > 418.8	2.41e3	4.85e4	0.117		3.75	3.80	0.621	0.935	
7	12	PFOS	499 > 79.9	2.04e3	9.79e3	0.117		3.86	3.85	2.61	21.1	
8	13	PFDA	513 > 468.8	1.30e3	4.25e4	0.117		3.96	3.98	0.382	2.01	
9	15	N-MeFOSAA	570.1 > 419		8.15e3	0.117		4.11				
10	16	N-EtFOSAA	584.2 > 419		8.13e3	0.117		4.18				
11	17	PFUnA	562.9 > 518.9		4.30e4	0.117		4.12				
12	19	PFDoA	612.9 > 318.8		3.33e3	0.117		4.28				

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:09:45 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		3.33e3	0.117		4.45				
2	22	PFTeDA	712.9 > 668.8		1.90e4	0.117		4.66				
3	30	13C3-PFBS	302 > 98.8	5.65e3	6.45e4	0.117	0.033	2.94	2.93	0.438	113	106.6
4	31	13C2-PFHxA	315 > 269.8	1.81e4	6.45e4	0.117	0.304	3.14	3.15	1.40	39.3	92.2
5	32	13C4-PFHpA	367.2 > 321.8	4.32e4	6.45e4	0.117	0.384	3.40	3.41	3.35	74.2	69.7
6	33	18O2-PFHxS	403 > 102.6	3.94e3	9.99e3	0.117	0.417	3.47	3.49	4.94	101	94.7
7	35	13C2-PFOA	414.9 > 369.7	5.40e4	5.38e4	0.117	1.132	3.71	3.62	12.5	94.3	88.6
8	36	13C5-PFNA	468.2 > 422.9	4.85e4	5.84e4	0.117	0.946	3.75	3.80	10.4	93.4	87.8
9	38	13C8-PFOS	507 > 79.9	9.79e3	9.60e3	0.117	1.040	3.84	3.85	12.7	104	98.1
10	39	13C2-PFDA	515.1 > 469.9	4.25e4	5.56e4	0.117	0.971	3.96	3.98	9.55	83.7	78.7

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:10:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	8.15e3	5.09e4	0.117	0.018	3.99	4.00	2.00	957	69.2
2	42	d5-N-EtFOSAA	589.3 > 419	8.13e3	5.09e4	0.117	0.018	4.06	4.07	2.00	932	67.4
3	43	13C2-PFUnA	565 > 519.8	4.30e4	5.09e4	0.117	1.085	4.12	4.14	10.6	82.8	77.8
4	44	13C2-PFDoA	615 > 569.7	3.33e3	5.09e4	0.117	0.123	4.29	4.30	0.817	56.5	53.1
5	46	13C2-PFTeDA	714.8 > 669.6	1.90e4	5.09e4	0.117	0.798	4.66	4.65	4.65	49.6	46.7
6	52	13C5-PFHxA	318 > 272.9	6.45e4	6.45e4	0.117	1.000	3.14	3.15	5.00	42.6	100.0
7	53	13C3-PFHxS	401.9 > 79.9	9.99e3	9.99e3	0.117	1.000	3.47	3.49	12.5	106	100.0
8	54	13C8-PFOA	421.3 > 376	5.38e4	5.38e4	0.117	1.000	3.71	3.62	12.5	106	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.84e4	5.84e4	0.117	1.000	3.79	3.80	12.5	106	100.0
10	56	13C4-PFOS	503 > 79.9	9.60e3	9.60e3	0.117	1.000	3.84	3.85	12.5	106	100.0
11	57	13C6-PFDA	519.1 > 473.7	5.56e4	5.56e4	0.117	1.000	3.95	3.97	12.5	106	100.0
12	58	13C7-PFUnA	570.1 > 524.8	5.09e4	5.09e4	0.117	1.000	4.12	4.14	12.5	106	100.0
13	59	Total PFBS	299 > 79.7	0.00e0	5.65e3	0.117		3.06		0.000		
14	60	Total PFHxS	398.9 > 79.6	4.75e2	3.94e3	0.117		3.58		1.50	7.79	
15	61	Total PFOA	413 > 368.7	2.03e4	5.40e4	0.117		3.71		4.70	38.2	
16	62	Total PFOS	499 > 79.9	2.04e3	9.79e3	0.117		3.96		2.61	21.1	
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	8.15e3	0.117		4.11		0.000		
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	8.13e3	0.117		4.18		0.000		

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
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Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7			5647.730		MM-I	

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.48	474.544	3943.904	1.504	MM	7.8

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	61	Total PFOA	413 > 368.7	3.57	1484.464	54015.805	0.344	bd	1.7
2	8	PFOA	413 > 368.7	3.62	18822.160	54015.805	4.356	db	36.5

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.85	2042.630	9793.761	2.607	MM	21.1

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
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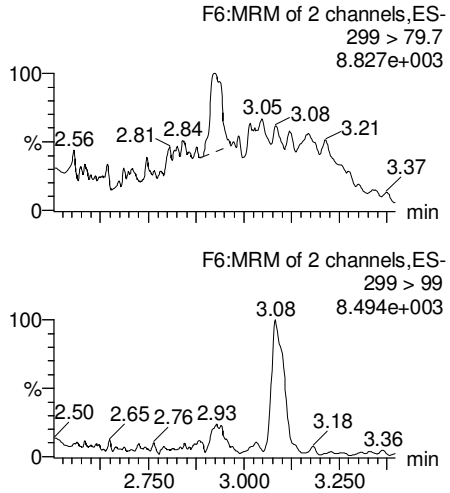
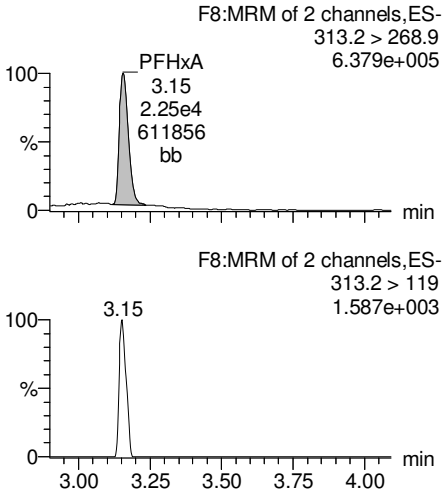
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

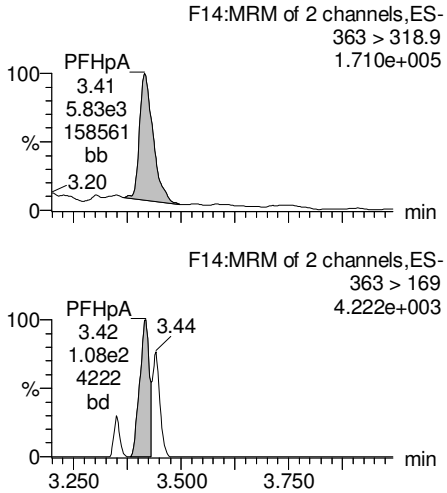
Total PFBS



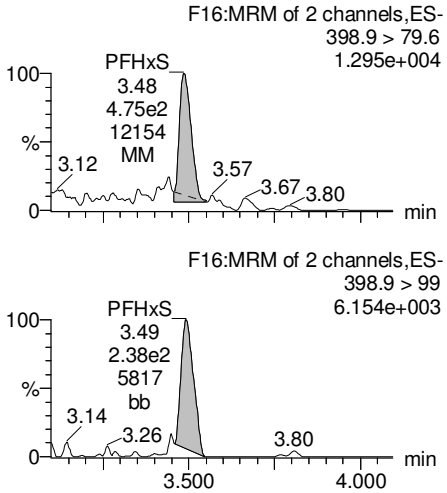
PFHxA



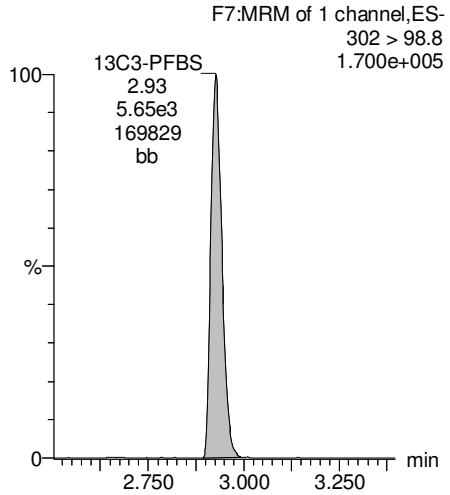
PFHpA



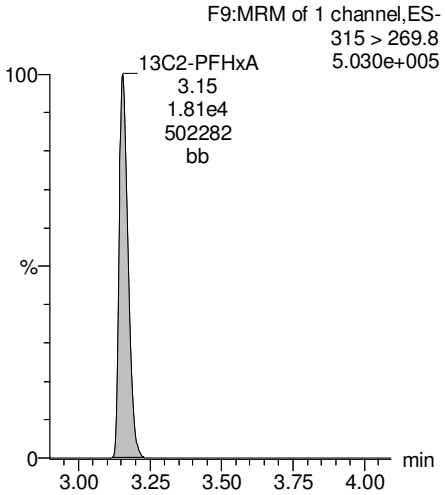
Total PFHxS



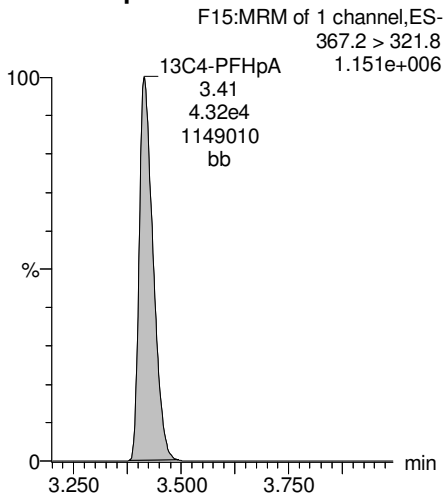
13C3-PFBS



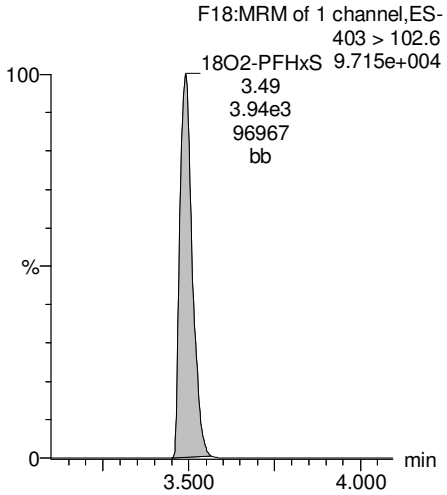
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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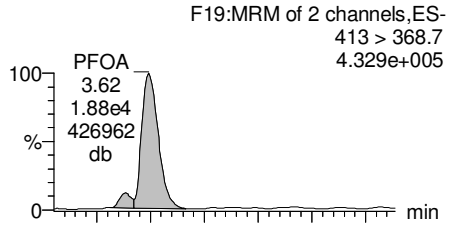
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:09:28 Pacific Daylight Time

Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

Total PFOA



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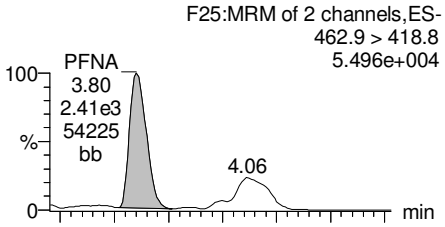
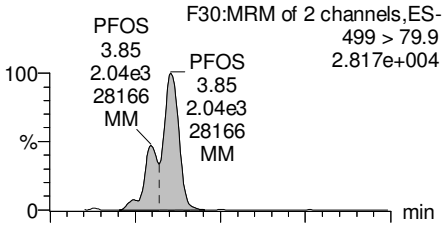
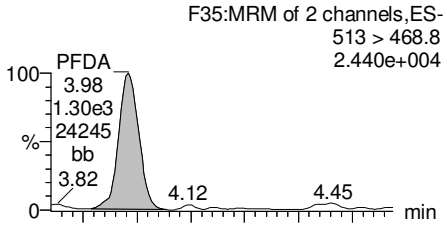
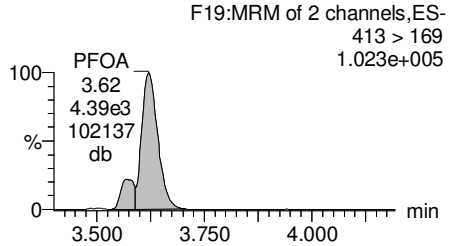


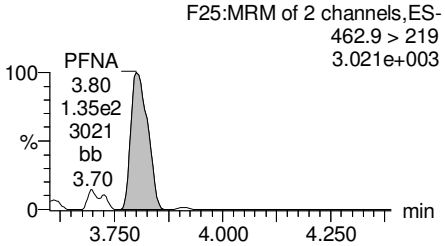
Total PFOS

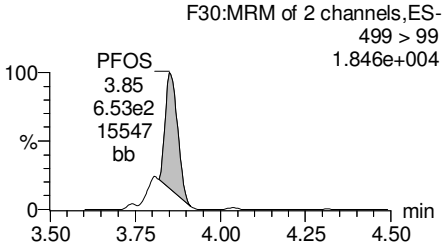


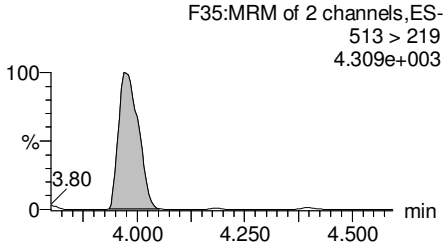
PFDA



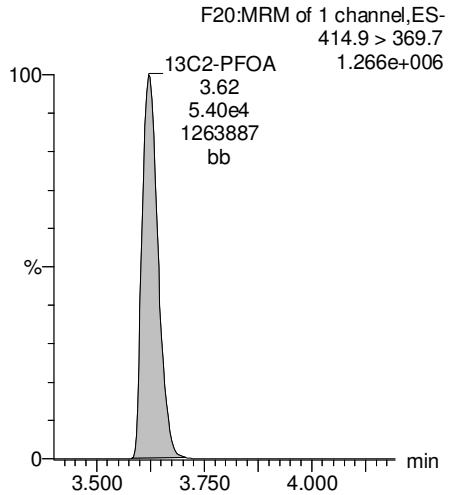




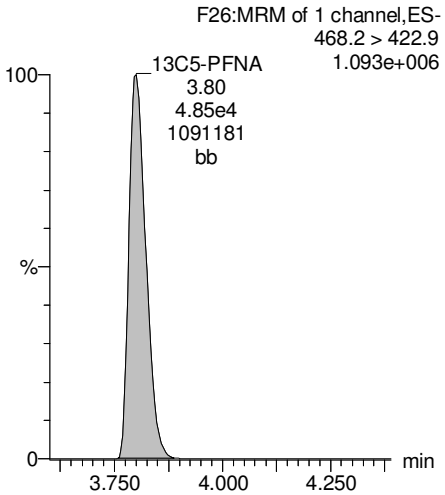




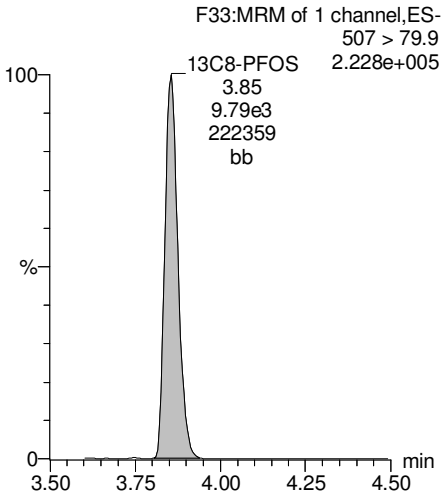
13C2-PFOA



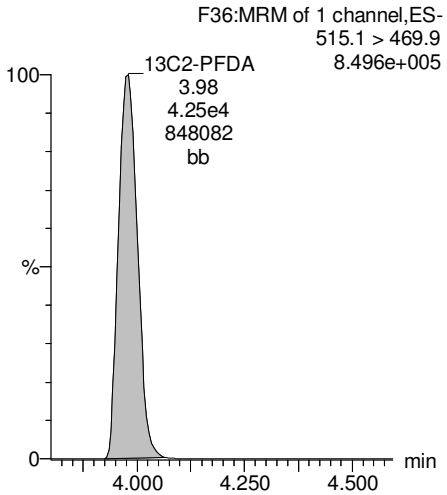
13C5-PFNA



13C8-PFOS



13C2-PFDA



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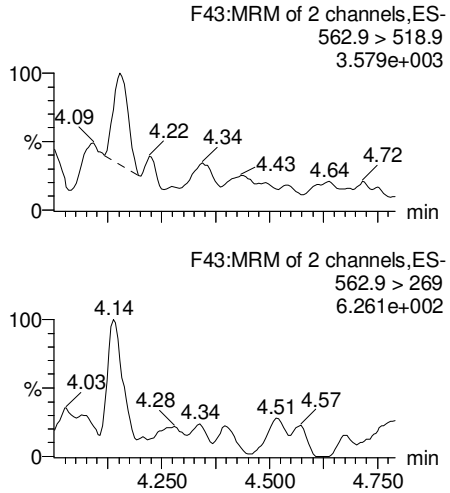
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:09:28 Pacific Daylight Time

Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

PFUnA



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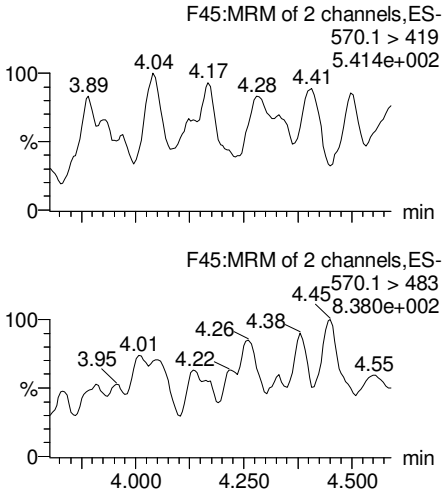

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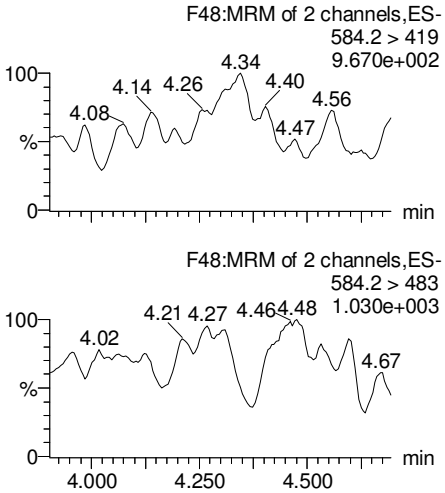
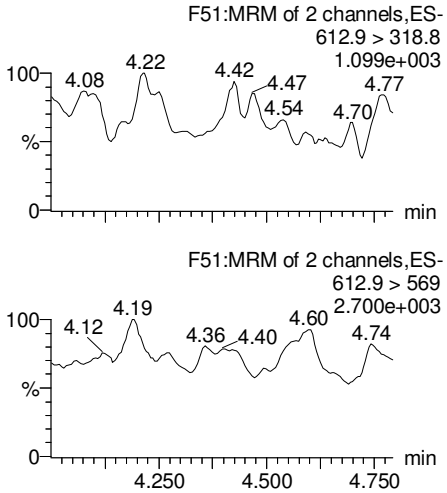


PFDoA



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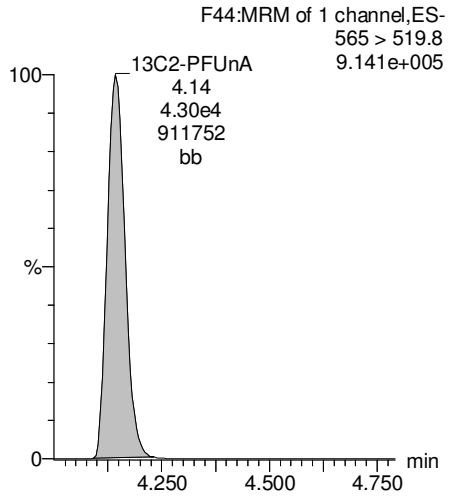

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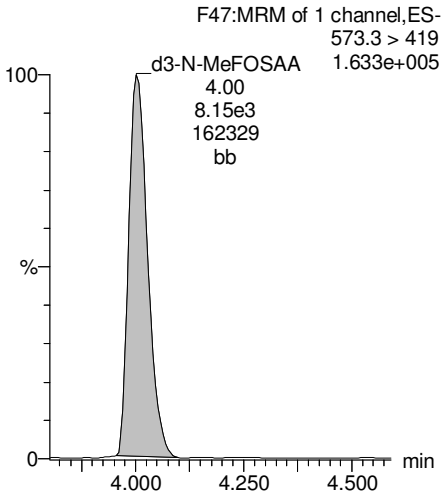

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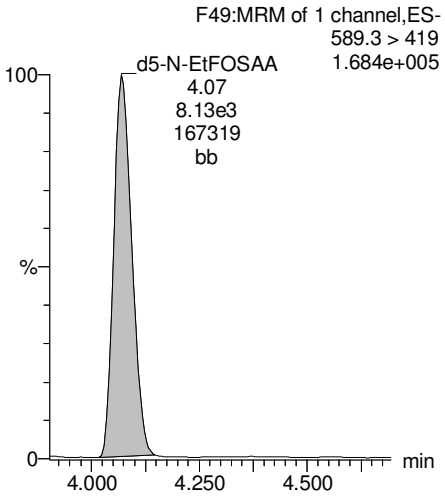
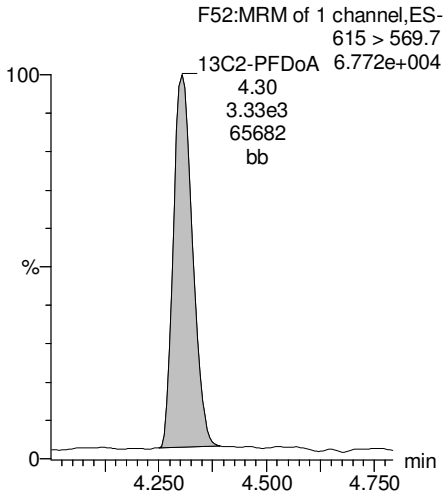


13C2-PFDoA



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Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
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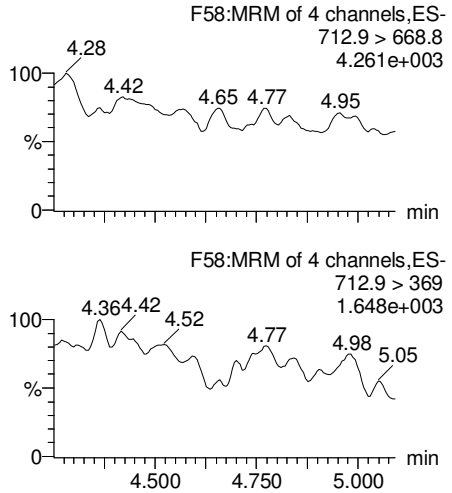
Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

PFTeDA



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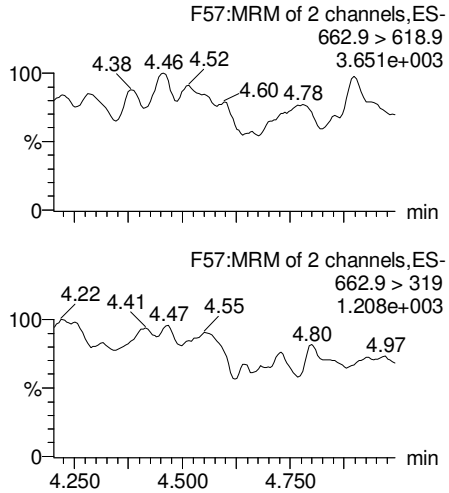
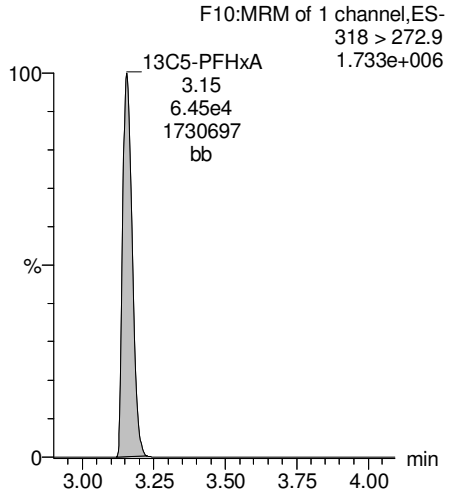
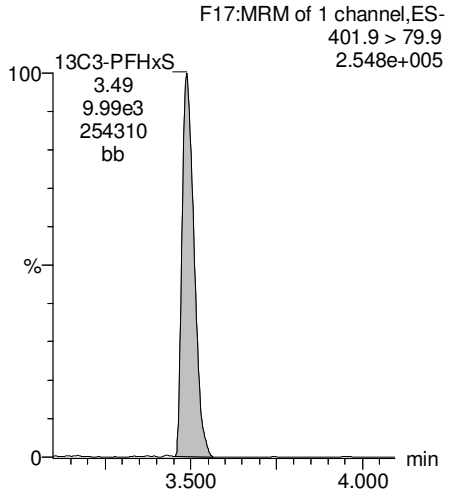


13C5-PFHxA



13C3-PFHxS



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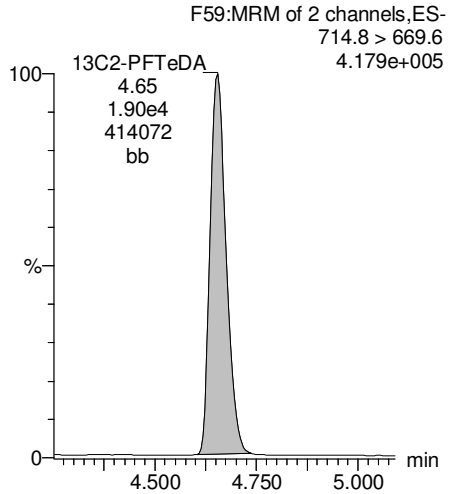

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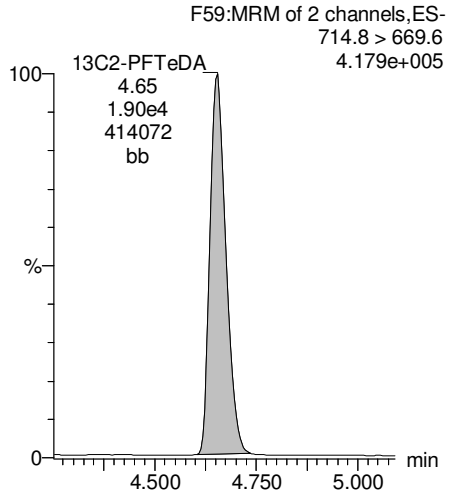
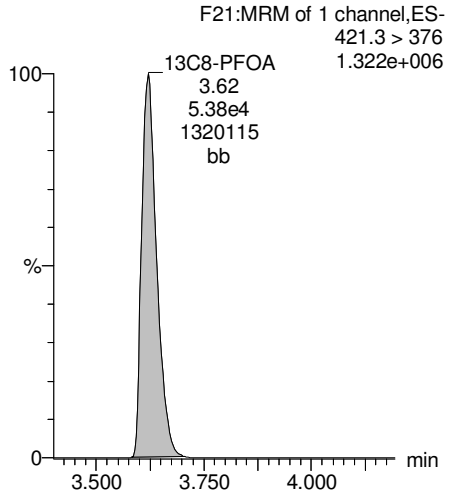
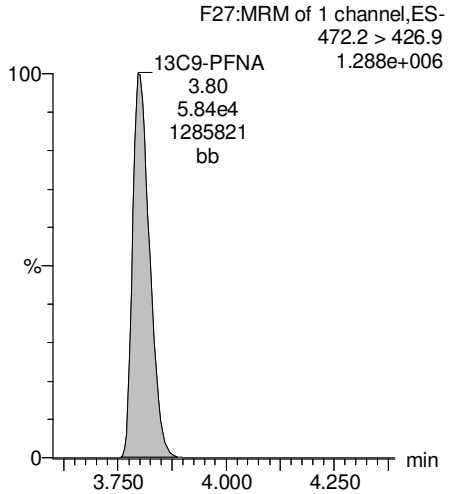


13C8-PFOA



13C9-PFNA



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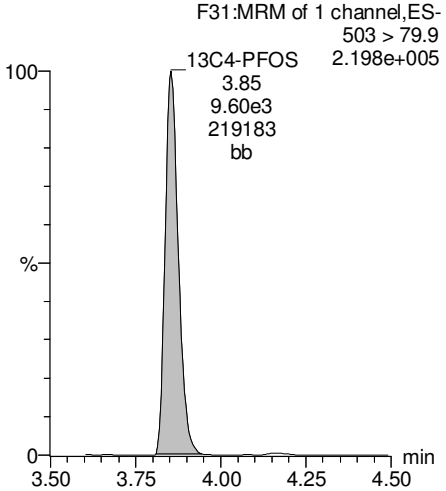
Dataset: U:\Q4.PRO\results\170815M1\170815M1-38.qld

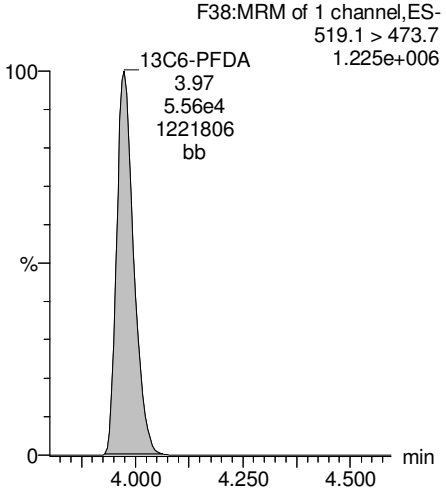
Last Altered: Tuesday, August 22, 2017 12:08:35 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:09:28 Pacific Daylight Time

Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

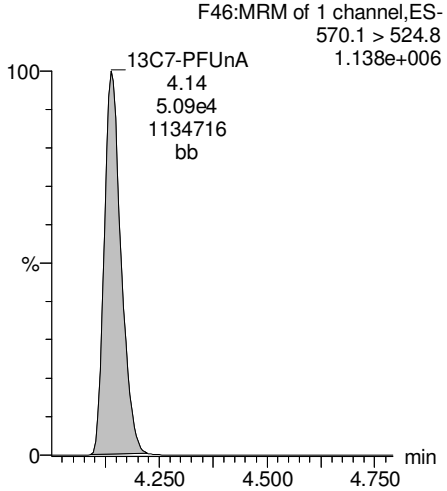
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-39.qld

Last Altered: Tuesday, August 22, 2017 12:15:50 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:16:20 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.74e3	0.122		3.06				
2	4	PFHxA	313.2 > 268.9	1.36e2	1.83e4	0.122		3.14	3.16	0.0373		
3	5	PFHpA	363 > 318.9		4.64e4	0.122		3.40				
4	6	PFHxS	398.9 > 79.6		3.73e3	0.122		3.58				
5	8	PFOA	413 > 368.7		5.23e4	0.122		3.71				
6	10	PFNA	462.9 > 418.8		4.68e4	0.122		3.75				
7	12	PFOS	499 > 79.9	1.23e0	8.22e3	0.122		3.86	3.79	0.00187	0.319	
8	13	PFDA	513 > 468.8		4.23e4	0.122		3.96				
9	15	N-MeFOSAA	570.1 > 419		6.66e3	0.122		4.11				
10	16	N-EtFOSAA	584.2 > 419		5.53e3	0.122		4.18				
11	17	PFUnA	562.9 > 518.9		2.65e4	0.122		4.12				
12	19	PFDoA	612.9 > 318.8		1.47e3	0.122		4.28				

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-39.qld

Last Altered: Tuesday, August 22, 2017 12:15:50 Pacific Daylight Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.47e3	0.122		4.45				
2	22	PFTeDA	712.9 > 668.8		9.41e3	0.122		4.66				
3	30	13C3-PFBS	302 > 98.8	5.74e3	6.17e4	0.122	0.033	2.94	2.92	0.465	116	113.2
4	31	13C2-PFHxA	315 > 269.8	1.83e4	6.17e4	0.122	0.304	3.14	3.15	1.48	40.0	97.5
5	32	13C4-PFHpA	367.2 > 321.8	4.64e4	6.17e4	0.122	0.384	3.40	3.41	3.76	80.3	78.2
6	33	18O2-PFHxS	403 > 102.6	3.73e3	9.47e3	0.122	0.417	3.47	3.49	4.93	97.0	94.5
7	35	13C2-PFOA	414.9 > 369.7	5.23e4	5.14e4	0.122	1.132	3.71	3.62	12.7	92.1	89.8
8	36	13C5-PFNA	468.2 > 422.9	4.68e4	5.69e4	0.122	0.946	3.75	3.79	10.3	89.2	86.9
9	38	13C8-PFOS	507 > 79.9	8.22e3	8.24e3	0.122	1.040	3.84	3.85	12.5	98.4	95.9
10	39	13C2-PFDA	515.1 > 469.9	4.23e4	5.02e4	0.122	0.971	3.96	3.97	10.5	89.0	86.8

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Dataset: U:\Q4.PRO\results\170815M1\170815M1-39.qld

Last Altered: Tuesday, August 22, 2017 12:15:50 Pacific Daylight Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	6.66e3	3.40e4	0.122	0.018	3.99	4.00	2.45	1130	84.8
2	42	d5-N-EtFOSAA	589.3 > 419	5.53e3	3.40e4	0.122	0.018	4.06	4.07	2.03	916	68.6
3	43	13C2-PFUnA	565 > 519.8	2.65e4	3.40e4	0.122	1.085	4.12	4.14	9.74	73.7	71.8
4	44	13C2-PFDoA	615 > 569.7	1.47e3	3.40e4	0.122	0.123	4.29	4.30	0.540	36.0	35.1
5	46	13C2-PFTeDA	714.8 > 669.6	9.41e3	3.40e4	0.122	0.798	4.66	4.65	3.46	35.6	34.7
6	52	13C5-PFHxA	318 > 272.9	6.17e4	6.17e4	0.122	1.000	3.14	3.15	5.00	41.0	100.0
7	53	13C3-PFHxS	401.9 > 79.9	9.47e3	9.47e3	0.122	1.000	3.47	3.48	12.5	103	100.0
8	54	13C8-PFOA	421.3 > 376	5.14e4	5.14e4	0.122	1.000	3.71	3.62	12.5	103	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.69e4	5.69e4	0.122	1.000	3.79	3.80	12.5	103	100.0
10	56	13C4-PFOS	503 > 79.9	8.24e3	8.24e3	0.122	1.000	3.84	3.85	12.5	103	100.0
11	57	13C6-PFDA	519.1 > 473.7	5.02e4	5.02e4	0.122	1.000	3.95	3.97	12.5	103	100.0
12	58	13C7-PFUnA	570.1 > 524.8	3.40e4	3.40e4	0.122	1.000	4.12	4.14	12.5	103	100.0
13	59	Total PFBS	299 > 79.7	0.00e0	5.74e3	0.122		3.06		0.000		
14	60	Total PFHxS	398.9 > 79.6	0.00e0	3.73e3	0.122		3.58		0.000		
15	61	Total PFOA	413 > 368.7	0.00e0	5.23e4	0.122		3.71		0.000		
16	62	Total PFOS	499 > 79.9	1.23e0	8.22e3	0.122		3.96		0.00187	0.319	
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	6.66e3	0.122		4.11		0.000		
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	5.53e3	0.122		4.18		0.000		

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Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7			52297.102		MM-I	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.79	1.231	8224.124	0.002	MM	0.3

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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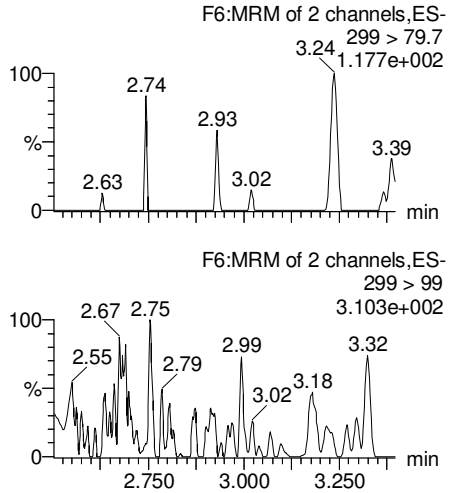
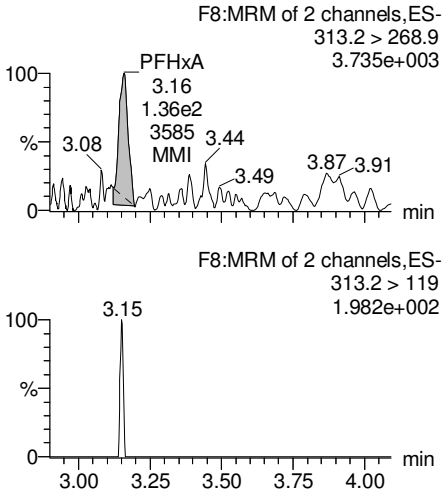
Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

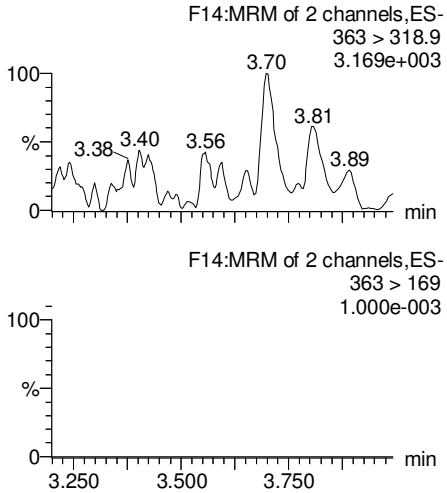
Total PFBS



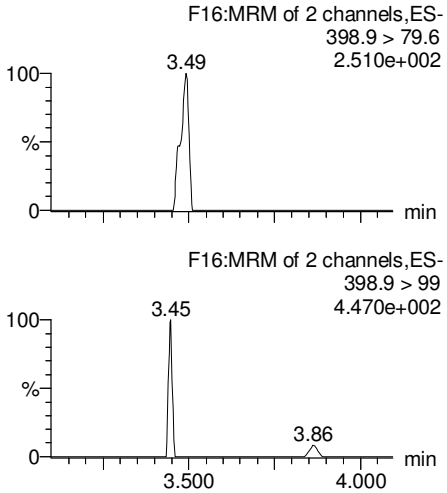
PFHxA



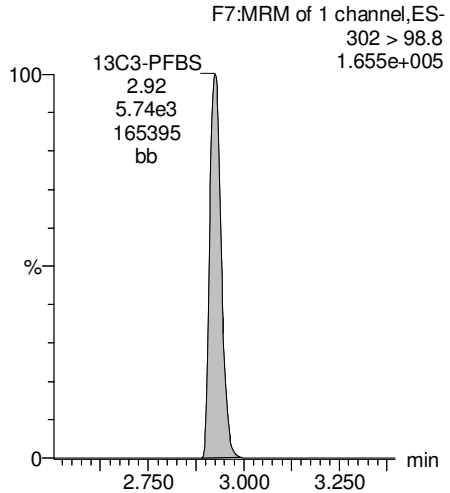
PFHpA



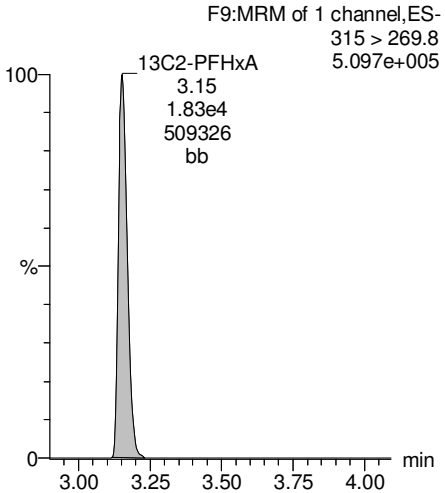
Total PFHxS



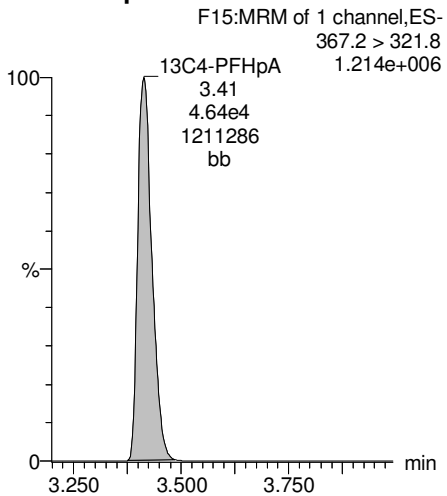
13C3-PFBS



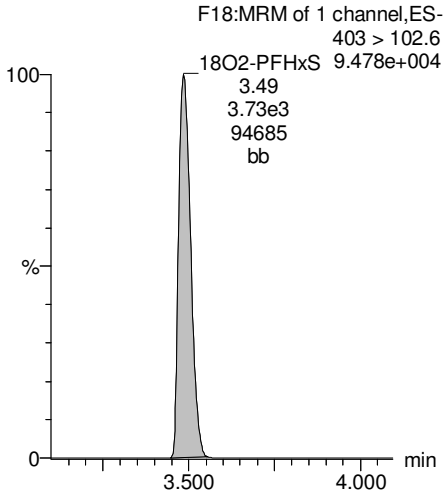
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Vista Analytical Laboratory

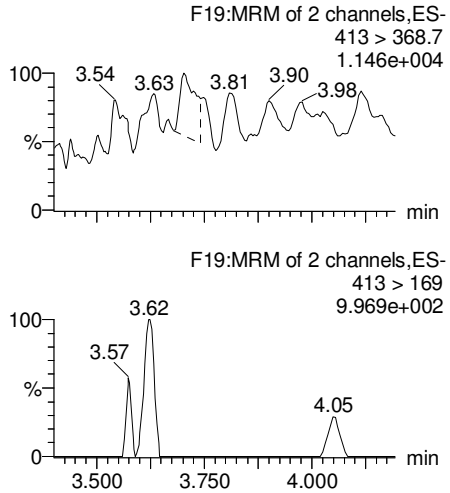
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-39.qld

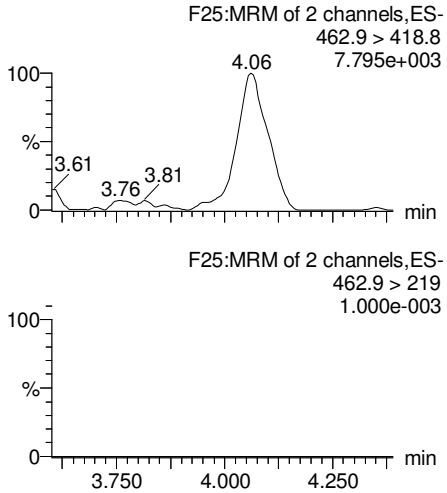
Last Altered: Tuesday, August 22, 2017 12:15:50 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:16:20 Pacific Daylight Time

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

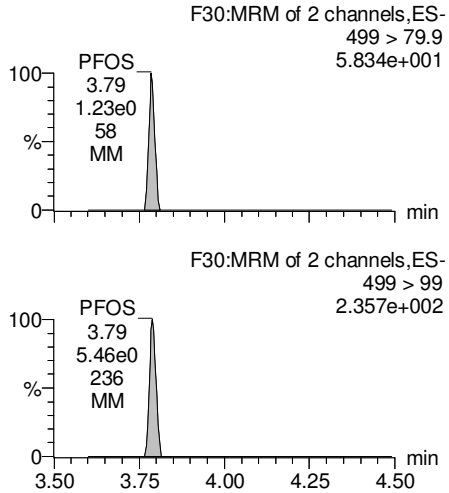
Total PFOA



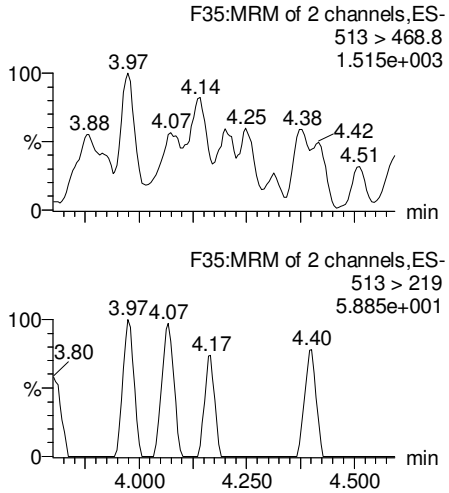
PFNA



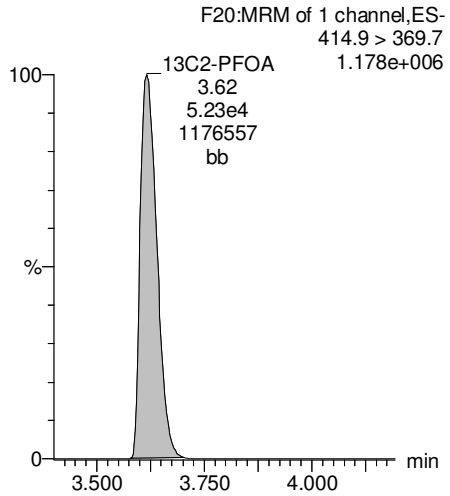
Total PFOS



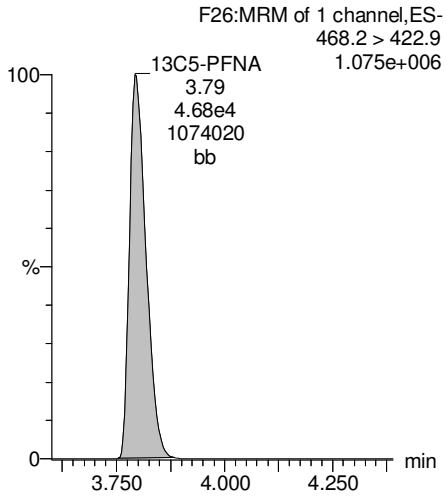
PFDA



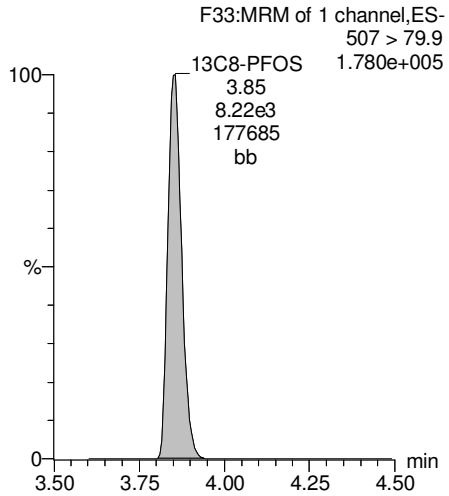
13C2-PFOA



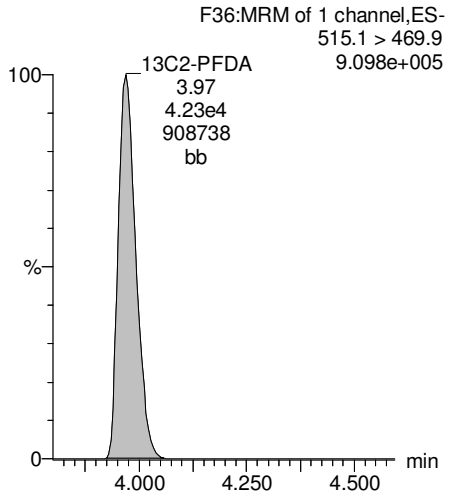
13C5-PFNA



13C8-PFOS



13C2-PFDA



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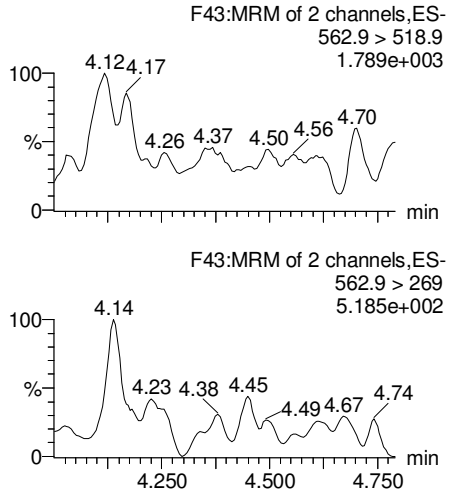
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-39.qld

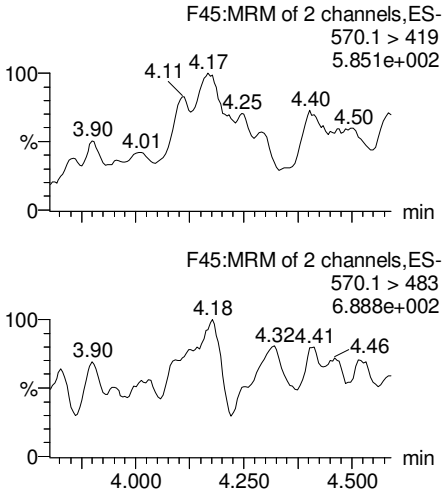
Last Altered: Tuesday, August 22, 2017 12:15:50 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:16:20 Pacific Daylight Time

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

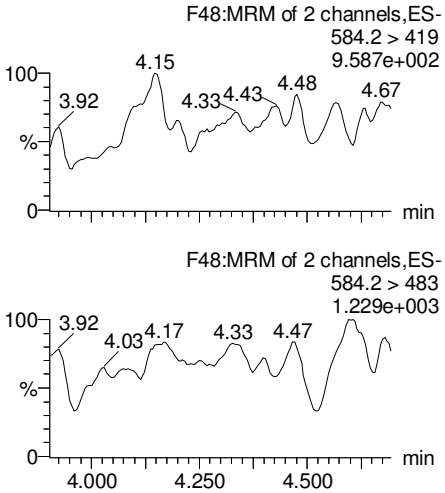
PFUnA



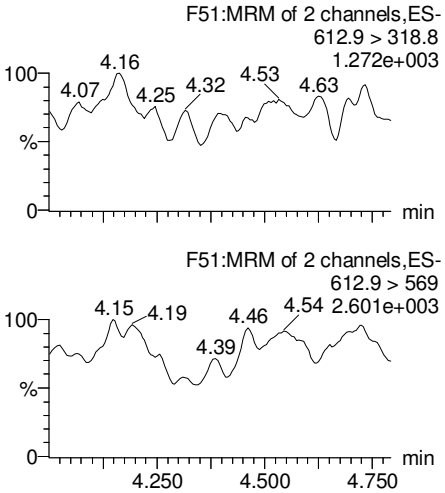
N-MeFOSAA



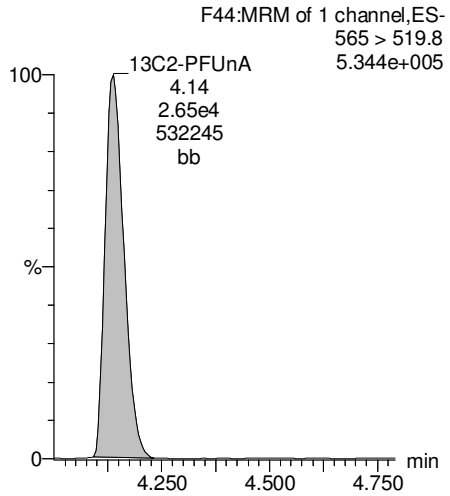
N-EtFOSAA



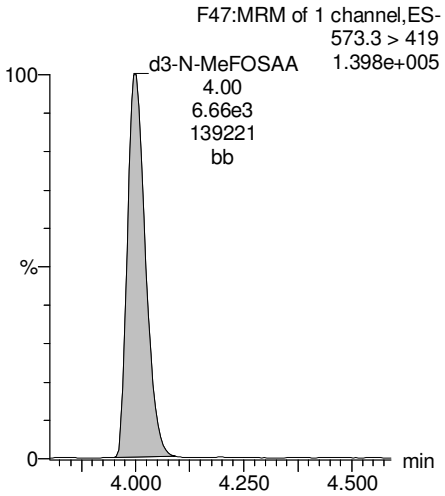
PFDoA



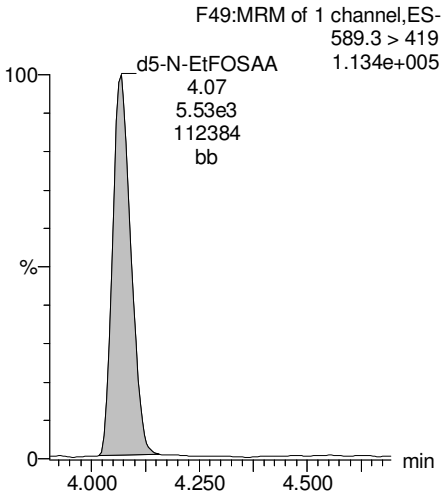
13C2-PFUnA



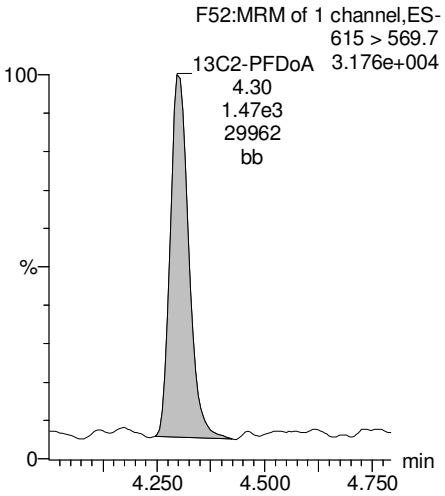
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



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Vista Analytical Laboratory

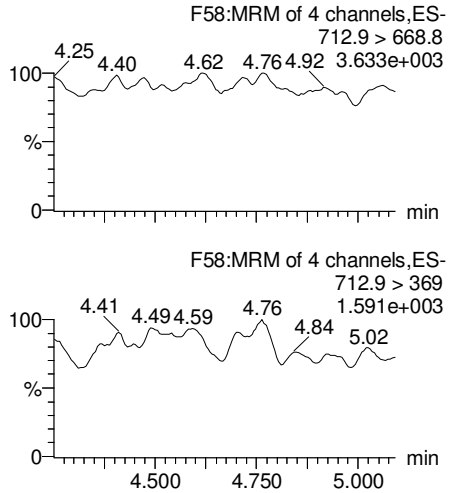
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-39.qld

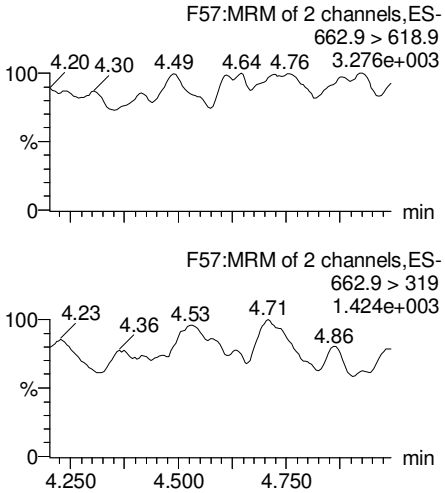
Last Altered: Tuesday, August 22, 2017 12:15:50 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:16:20 Pacific Daylight Time

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

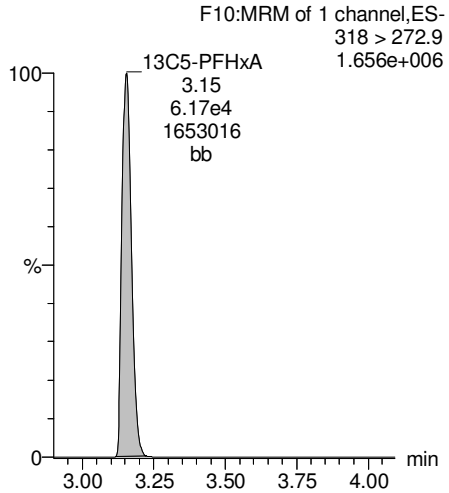
PFTeDA



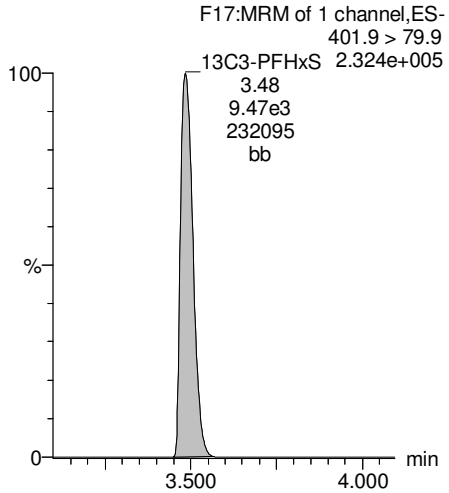
PFTrDA



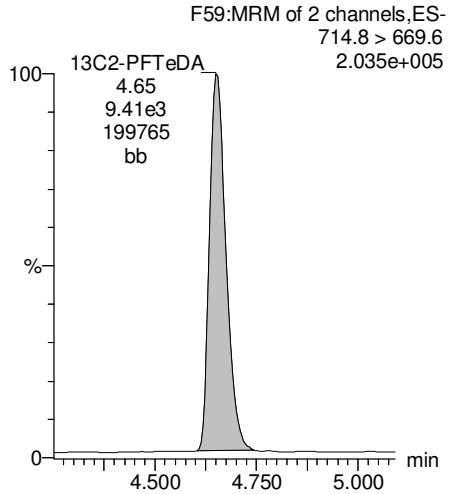
13C5-PFHxA



13C3-PFHxS



13C2-PFTeDA



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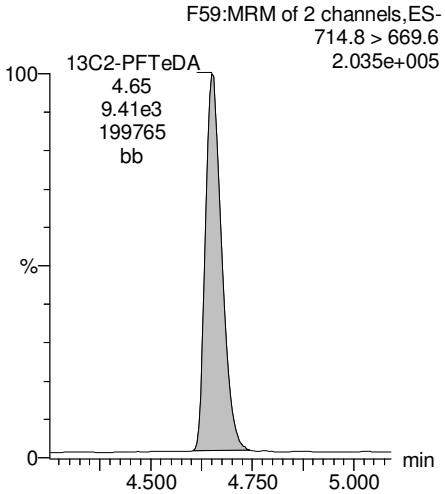
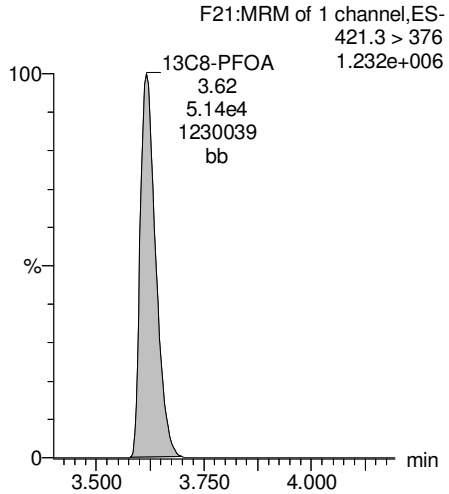
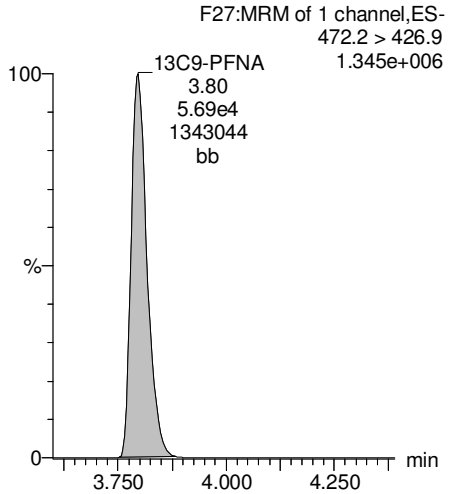


13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

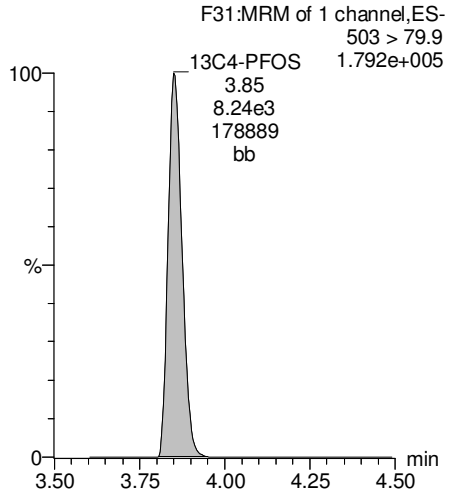
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-39.qld

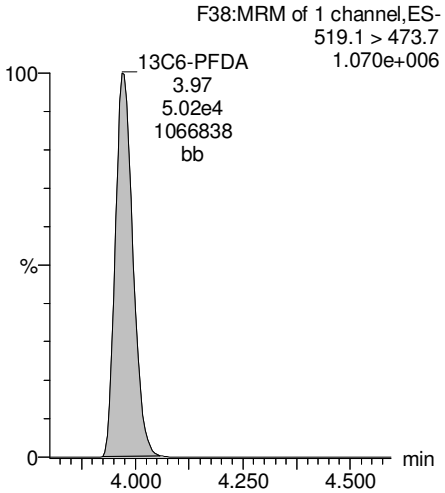
Last Altered: Tuesday, August 22, 2017 12:15:50 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:16:20 Pacific Daylight Time

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

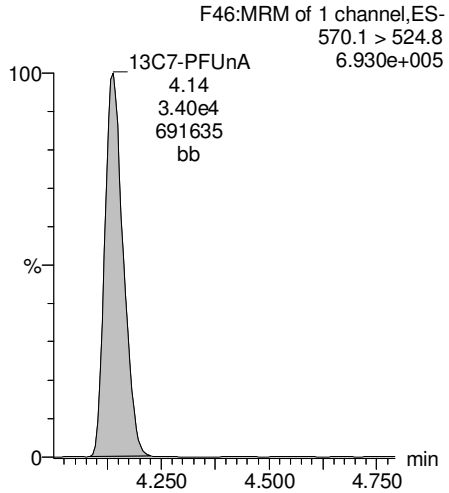
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:40 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	2.06e2	5.58e3	0.121		3.06	2.92	0.462	1.36	
2	4	PFHxA	313.2 > 268.9		1.91e4	0.121		3.14				
3	5	PFHpA	363 > 318.9		4.33e4	0.121		3.40				
4	6	PFHxS	398.9 > 79.6	1.80e2	3.98e3	0.121		3.58	3.48	0.565	3.20	
5	8	PFOA	413 > 368.7		5.69e4	0.121		3.71				
6	10	PFNA	462.9 > 418.8		4.73e4	0.121		3.75				
7	12	PFOS	499 > 79.9		9.06e3	0.121		3.96				
8	13	PFDA	513 > 468.8		4.27e4	0.121		3.96				
9	15	N-MeFOSAA	570.1 > 419		6.08e3	0.121		4.11				
10	16	N-EtFOSAA	584.2 > 419		5.26e3	0.121		4.18				
11	17	PFUnA	562.9 > 518.9		2.97e4	0.121		4.12				
12	19	PFDoA	612.9 > 318.8		1.19e3	0.121		4.28				

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.19e3	0.121		4.45				
2	22	PFTeDA	712.9 > 668.8		6.80e3	0.121		4.66				
3	30	13C3-PFBS	302 > 98.8	5.58e3	7.27e4	0.121	0.033	2.94	2.92	0.384	96.4	93.3
4	31	13C2-PFHxA	315 > 269.8	1.91e4	7.27e4	0.121	0.304	3.14	3.15	1.31	35.7	86.5
5	32	13C4-PFHpA	367.2 > 321.8	4.33e4	7.27e4	0.121	0.384	3.40	3.41	2.97	64.0	62.0
6	33	18O2-PFHxS	403 > 102.6	3.98e3	1.04e4	0.121	0.417	3.47	3.48	4.77	94.5	91.5
7	35	13C2-PFOA	414.9 > 369.7	5.69e4	5.83e4	0.121	1.132	3.71	3.62	12.2	89.0	86.2
8	36	13C5-PFNA	468.2 > 422.9	4.73e4	5.78e4	0.121	0.946	3.75	3.79	10.2	89.2	86.4
9	38	13C8-PFOS	507 > 79.9	9.06e3	9.31e3	0.121	1.040	3.84	3.85	12.2	96.7	93.6
10	39	13C2-PFDA	515.1 > 469.9	4.27e4	4.88e4	0.121	0.971	3.96	3.97	10.9	93.0	90.1

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:22:08 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	41	d3-N-MeFOSAA	573.3 > 419	6.08e3	4.21e4	0.121	0.018	3.99	4.00	1.81	839	62.5
2	42	d5-N-EtFOSAA	589.3 > 419	5.26e3	4.21e4	0.121	0.018	4.06	4.07	1.56	708	52.7
3	43	13C2-PFUnA	565 > 519.8	2.97e4	4.21e4	0.121	1.085	4.12	4.13	8.83	67.3	65.1
4	44	13C2-PFDoA	615 > 569.7	1.19e3	4.21e4	0.121	0.123	4.29	4.30	0.352	23.6	22.9
5	46	13C2-PFTeDA	714.8 > 669.6	6.80e3	4.21e4	0.121	0.798	4.66	4.65	2.02	20.9	20.3
6	52	13C5-PFHxA	318 > 272.9	7.27e4	7.27e4	0.121	1.000	3.14	3.15	5.00	41.3	100.0
7	53	13C3-PFHxS	401.9 > 79.9	1.04e4	1.04e4	0.121	1.000	3.47	3.48	12.5	103	100.0
8	54	13C8-PFOA	421.3 > 376	5.83e4	5.83e4	0.121	1.000	3.71	3.62	12.5	103	100.0
9	55	13C9-PFNA	472.2 > 426.9	5.78e4	5.78e4	0.121	1.000	3.79	3.79	12.5	103	100.0
10	56	13C4-PFOS	503 > 79.9	9.31e3	9.31e3	0.121	1.000	3.84	3.85	12.5	103	100.0
11	57	13C6-PFDA	519.1 > 473.7	4.88e4	4.88e4	0.121	1.000	3.95	3.97	12.5	103	100.0
12	58	13C7-PFUnA	570.1 > 524.8	4.21e4	4.21e4	0.121	1.000	4.12	4.14	12.5	103	100.0
13	59	Total PFBS	299 > 79.7	2.06e2	5.58e3	0.121		3.06		0.462	1.36	
14	60	Total PFHxS	398.9 > 79.6	1.80e2	3.98e3	0.121		3.58		0.565	3.20	
15	61	Total PFOA	413 > 368.7	0.00e0	5.69e4	0.121		3.71		0.000		
16	62	Total PFOS	499 > 79.9	0.00e0	9.06e3	0.121		3.96		0.000		
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	6.08e3	0.121		4.11		0.000		
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	5.26e3	0.121		4.18		0.000		

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:40 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.92	206.109	5577.224	0.462	MM	1.4

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.48	179.601	3975.764	0.565	MM	3.2

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Vista Analytical Laboratory

Revd: MM 8/23/17

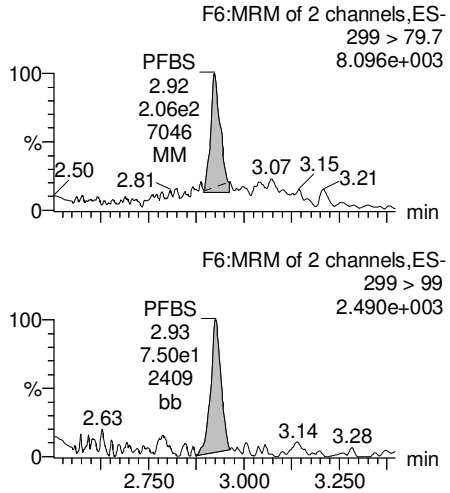
Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:40 Pacific Daylight Time

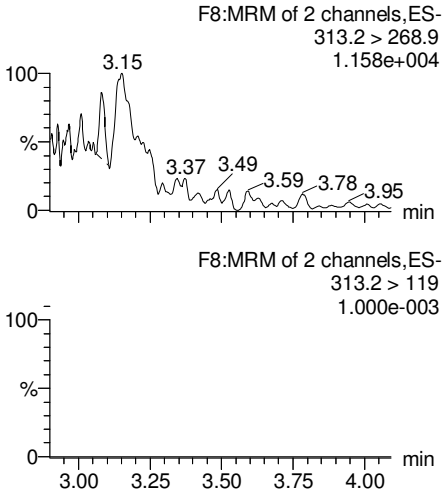
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

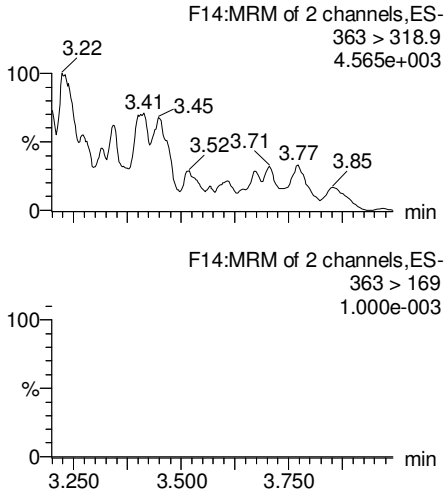
Total PFBS



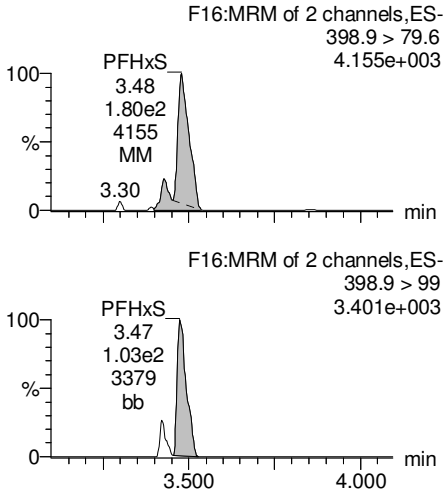
PFHxA



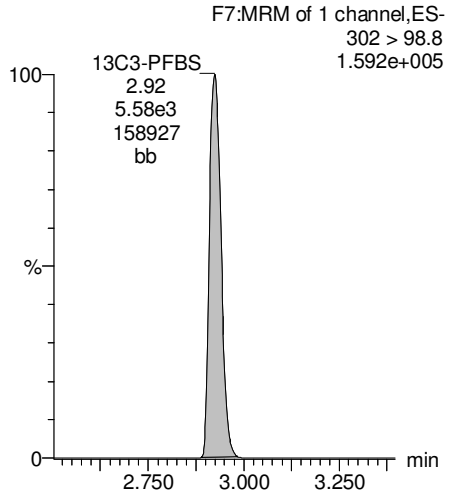
PFHpA



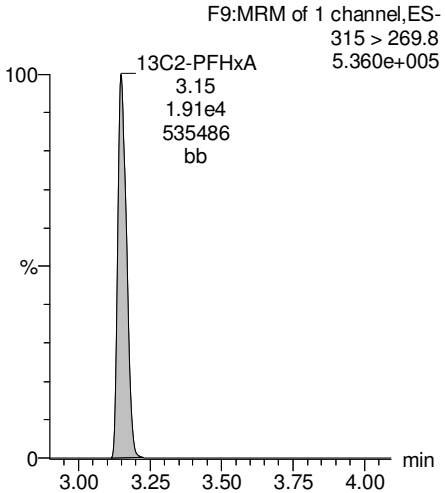
Total PFHxS



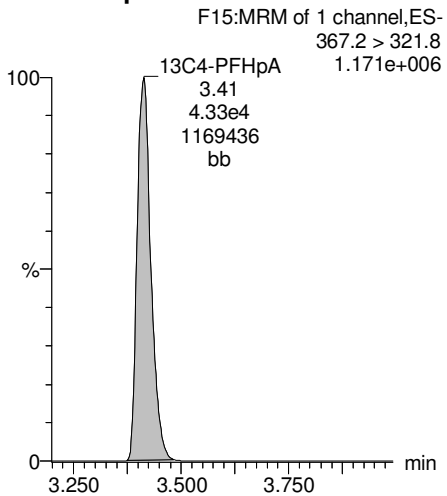
13C3-PFBS



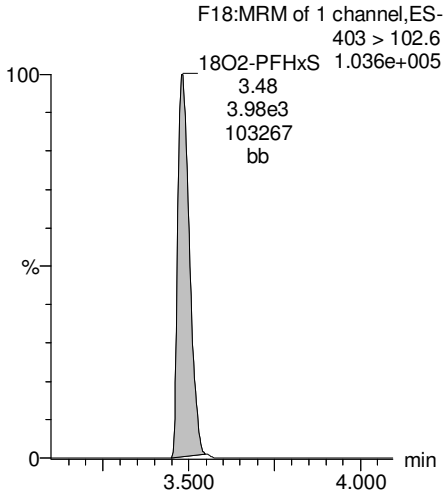
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



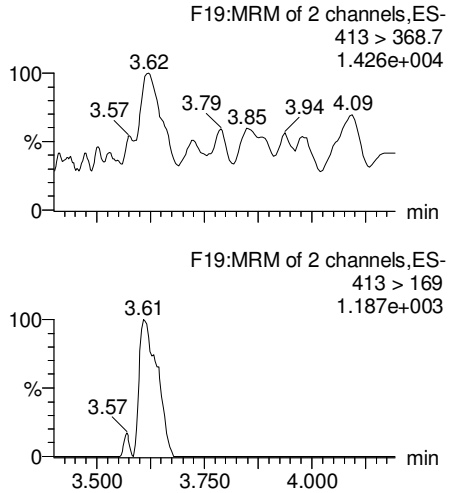
AC 8/22/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

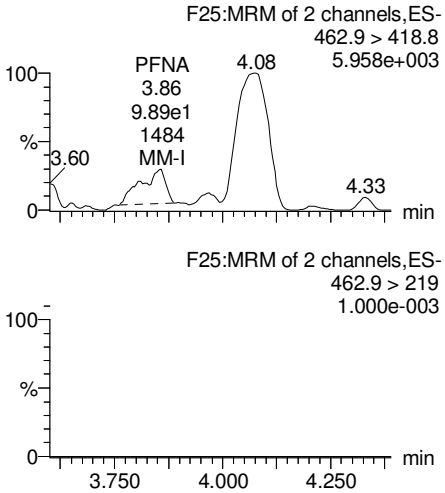
Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:40 Pacific Daylight Time

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

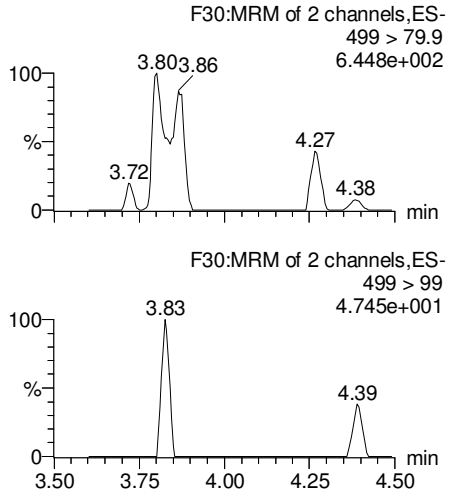
Total PFOA



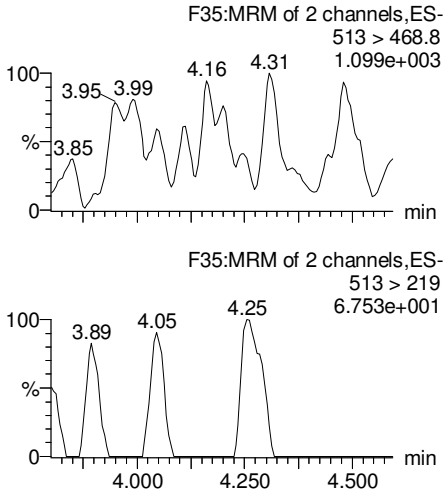
PFNA



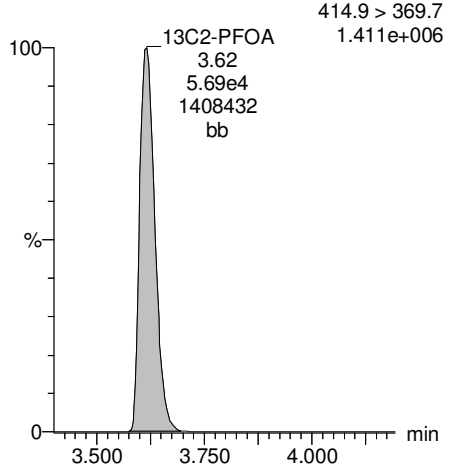
Total PFOS



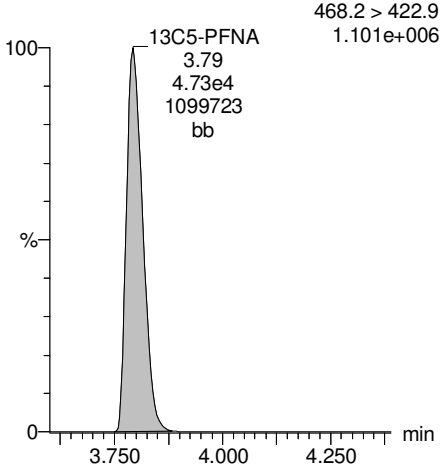
PFDA



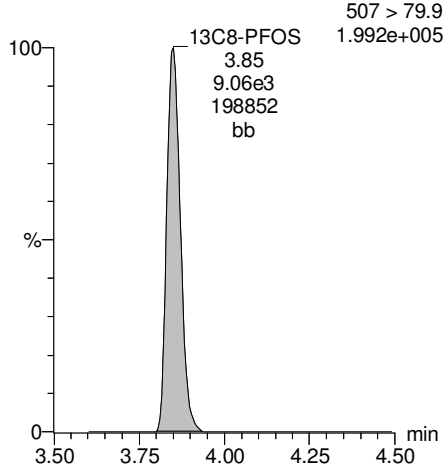
13C2-PFOA



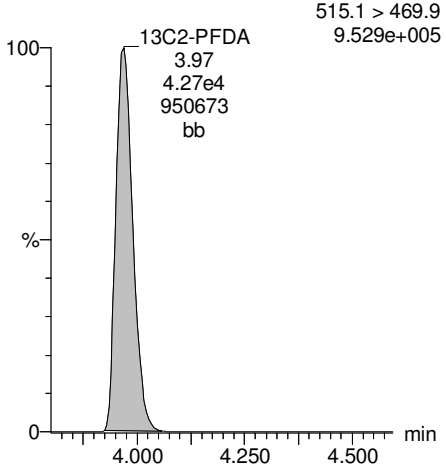
13C5-PFNA



13C8-PFOS



13C2-PFDA



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Vista Analytical Laboratory

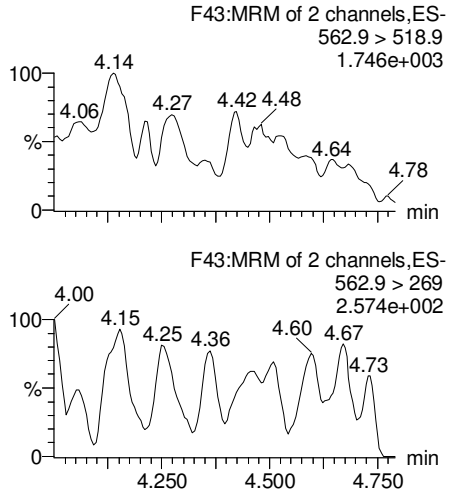
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

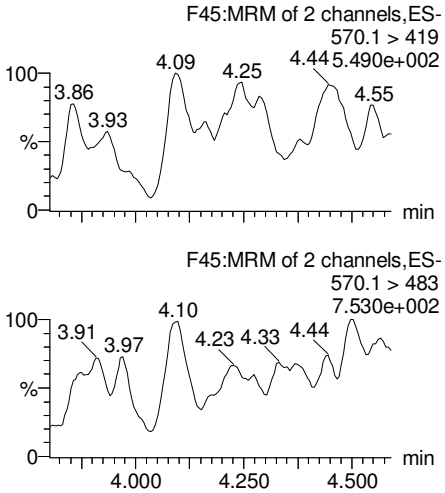
Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:40 Pacific Daylight Time

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

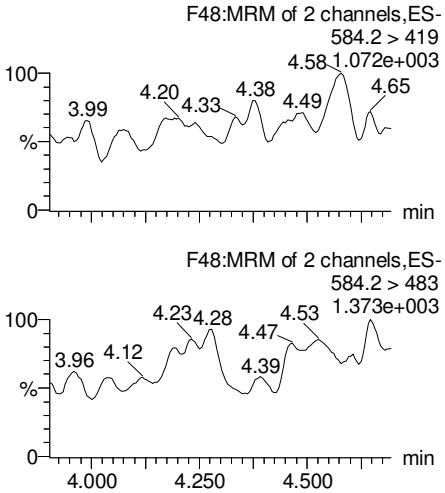
PFUnA



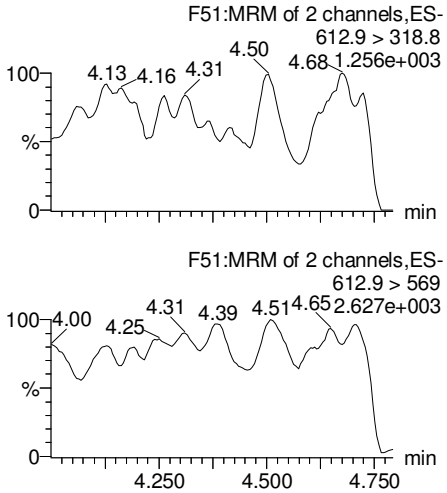
N-MeFOSAA



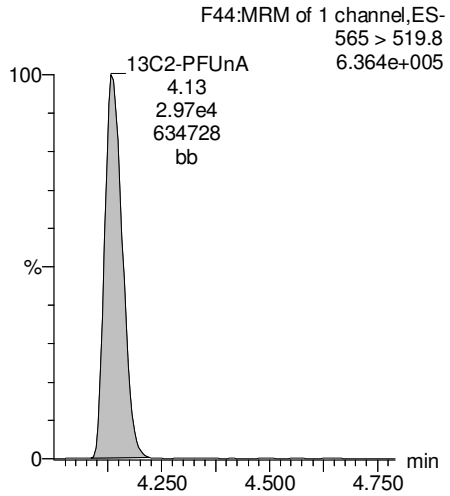
N-EtFOSAA



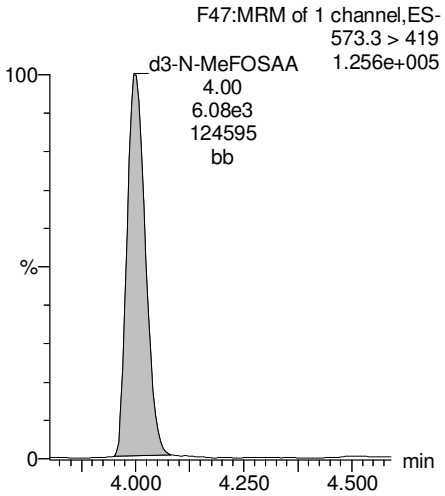
PFDoA



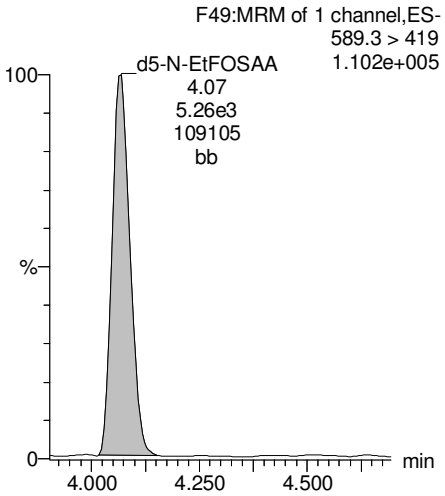
13C2-PFUnA



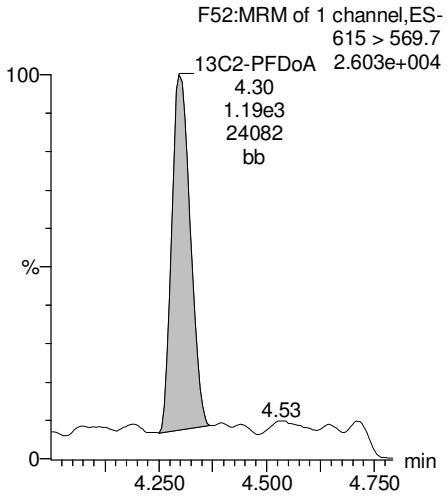
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



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Vista Analytical Laboratory

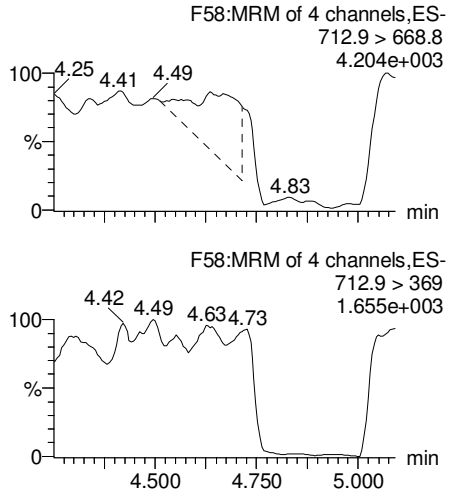
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

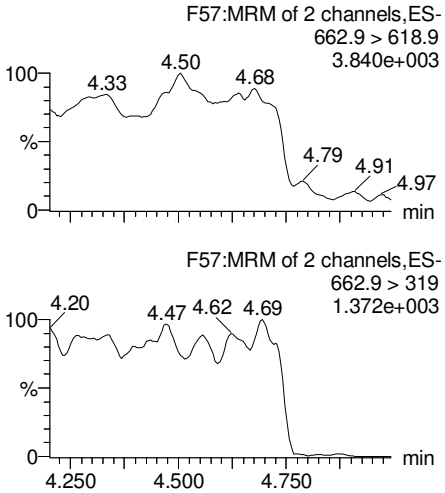
Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:40 Pacific Daylight Time

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

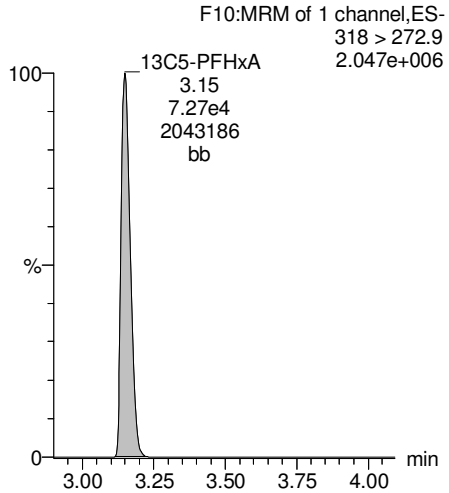
PFTeDA



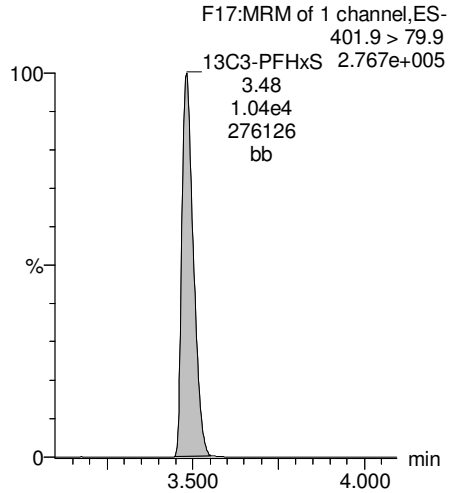
PFTrDA



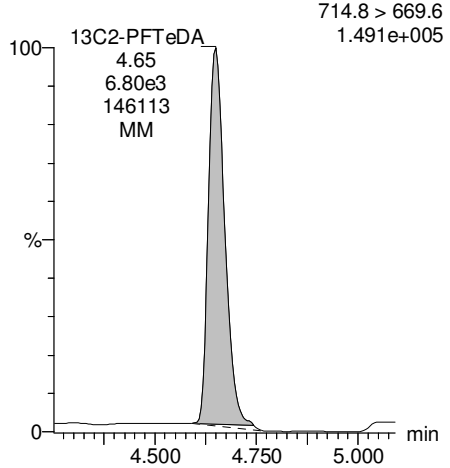
13C5-PFHxA



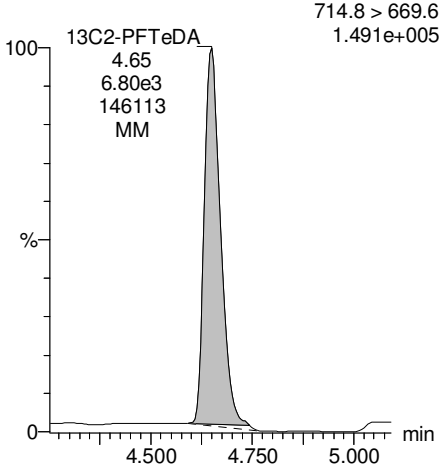
13C3-PFHxS



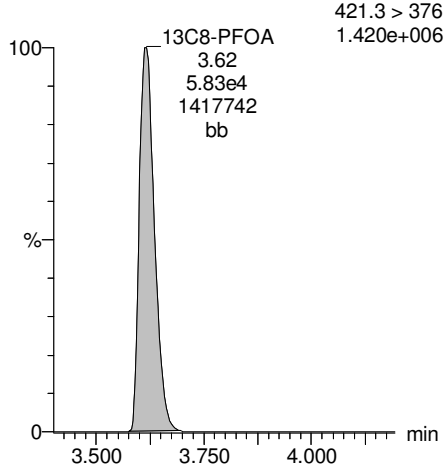
13C2-PFTeDA



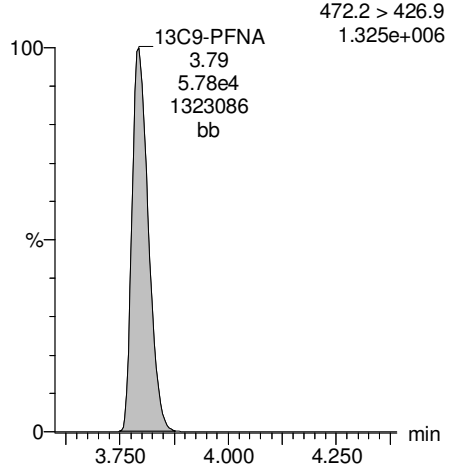
13C2-PFTeDA



13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

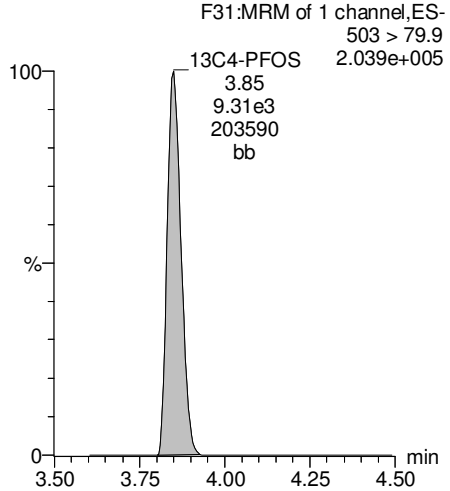
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-40.qld

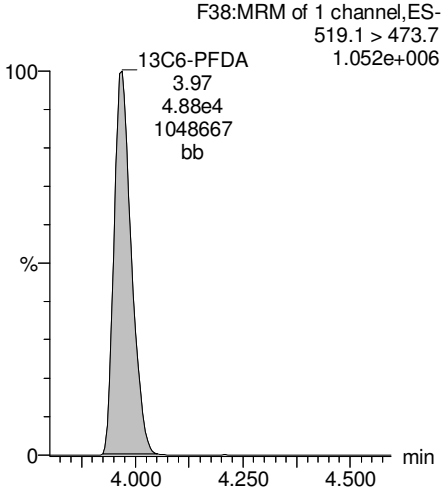
Last Altered: Tuesday, August 22, 2017 12:20:59 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 12:21:40 Pacific Daylight Time

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

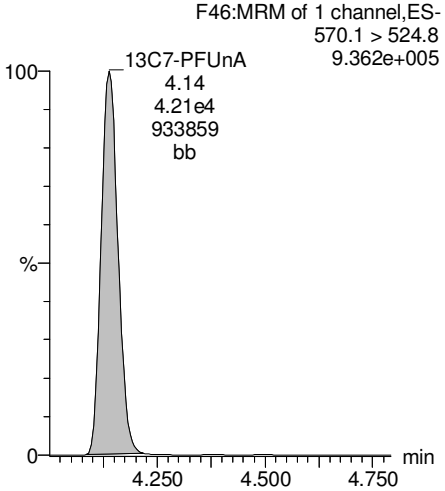
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:21 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	3.18e2	6.69e3	0.1228		2.89	2.85	0.594	2.28	
2	4	PFHxA	313.2 > 268.9		1.98e4	0.1228		3.14				
3	5	PFHpA	363 > 318.9		5.28e4	0.1228		3.40				
4	6	PFHxS	398.9 > 79.6	1.08e2	4.69e3	0.1228		3.41	3.46	0.289	1.26	
5	8	PFOA	413 > 368.7	5.63e2	6.67e4	0.1228		3.59	3.59	0.106		
6	10	PFNA	462.9 > 418.8		6.00e4	0.1228		3.75				
7	12	PFOS	499 > 79.9	5.58e1	9.90e3	0.1228		3.80	3.77	0.0704	0.449	
8	13	PFDA	513 > 468.8		5.38e4	0.1228		3.96				
9	15	N-MeFOSAA	570.1 > 419		6.92e3	0.1228		3.92				
10	16	N-EtFOSAA	584.2 > 419		5.38e3	0.1228		3.97				
11	17	PFUnA	562.9 > 518.9		3.56e4	0.1228		4.12				
12	19	PFDoA	612.9 > 318.8		1.74e3	0.1228		4.28				

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:32 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.74e3	0.1228		4.45				
2	22	PFTeDA	712.9 > 668.8		5.25e3	0.1228		4.54				
3	30	13C3-PFBS	302 > 98.8	6.69e3	7.41e4	0.1228	0.032	2.89	2.85	0.451	117	114.4
4	31	13C2-PFHxA	315 > 269.8	1.98e4	7.41e4	0.1228	0.304	3.14	3.12	1.33	35.8	87.8
5	32	13C4-PFHpA	367.2 > 321.8	5.28e4	7.41e4	0.1228	0.341	3.40	3.39	3.57	85.1	83.6
6	33	18O2-PFHxS	403 > 102.6	4.69e3	1.14e4	0.1228	0.445	3.41	3.46	5.14	94.0	92.4
7	35	13C2-PFOA	414.9 > 369.7	6.67e4	6.96e4	0.1228	1.081	3.59	3.59	12.0	90.1	88.5
8	36	13C5-PFNA	468.2 > 422.9	6.00e4	7.81e4	0.1228	0.908	3.75	3.77	9.59	86.0	84.5
9	38	13C8-PFOS	507 > 79.9	9.90e3	1.01e4	0.1228	1.076	3.77	3.82	12.3	92.7	91.1
10	39	13C2-PFDA	515.1 > 469.9	5.38e4	6.51e4	0.1228	1.002	3.96	3.94	10.3	83.9	82.4

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	41	d3-N-MeFOSAA	573.3 > 419	6.92e3	4.38e4	0.1228	0.016	3.99	3.97	1.98	1020	77.3	
2	42	d5-N-EtFOSAA	589.3 > 419	5.38e3	4.38e4	0.1228	0.015	4.06	4.04	1.54	808	61.0	
3	43	13C2-PFUnA	565 > 519.8	3.56e4	4.38e4	0.1228	1.045	4.12	4.11	10.2	79.1	77.7	
4	44	13C2-PFDoA	615 > 569.7	1.74e3	4.38e4	0.1228	0.101	4.29	4.27	0.496	40.1	39.4	H
5	46	13C2-PFTeDA	714.8 > 669.6	5.25e3	4.38e4	0.1228	0.583	4.54	4.61	1.50	20.9	20.6	H
6	52	13C5-PFHxA	318 > 272.9	7.41e4	7.41e4	0.1228	1.000	3.14	3.12	5.00	40.7	100.0	
7	53	13C3-PFHxS	401.9 > 79.9	1.14e4	1.14e4	0.1228	1.000	3.41	3.46	12.5	102	100.0	
8	54	13C8-PFOA	421.3 > 376	6.96e4	6.96e4	0.1228	1.000	3.55	3.59	12.5	102	100.0	
9	55	13C9-PFNA	472.2 > 426.9	7.81e4	7.81e4	0.1228	1.000	3.79	3.77	12.5	102	100.0	
10	56	13C4-PFOS	503 > 79.9	1.01e4	1.01e4	0.1228	1.000	3.77	3.82	12.5	102	100.0	
11	57	13C6-PFDA	519.1 > 473.7	6.51e4	6.51e4	0.1228	1.000	3.95	3.94	12.5	102	100.0	
12	58	13C7-PFUnA	570.1 > 524.8	4.38e4	4.38e4	0.1228	1.000	4.12	4.11	12.5	102	100.0	
13	59	Total PFBS	299 > 79.7	3.18e2	6.69e3	0.1228		3.06		0.594	2.28		
14	60	Total PFHxS	398.9 > 79.6	1.08e2	4.69e3	0.1228		3.58		0.289	1.26		
15	61	Total PFOA	413 > 368.7	5.63e2	6.67e4	0.1228		3.71		0.000			
16	62	Total PFOS	499 > 79.9	5.58e1	9.90e3	0.1228		3.96		0.0704	0.449		
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	6.92e3	0.1228		4.11		0.000			
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	5.38e3	0.1228		4.18		0.000			

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.85	317.524	6687.303	0.594	bb	2.3

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.46	108.404	4685.040	0.289	bb	1.3

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.59	563.089	66650.453	0.106	bbl	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.77	55.776	9899.707	0.070	MM	0.4

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Revd: MM 8/23/17

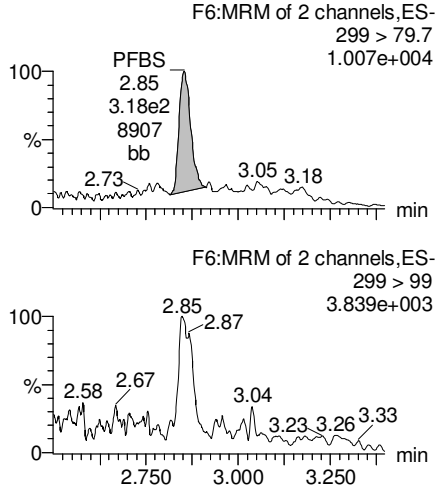
Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:50 Pacific Daylight Time

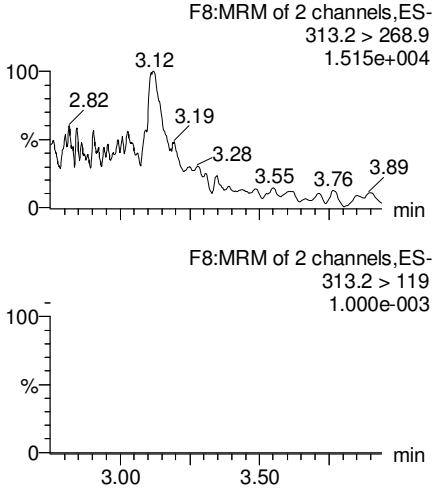
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

Total PFBS



PFHxA



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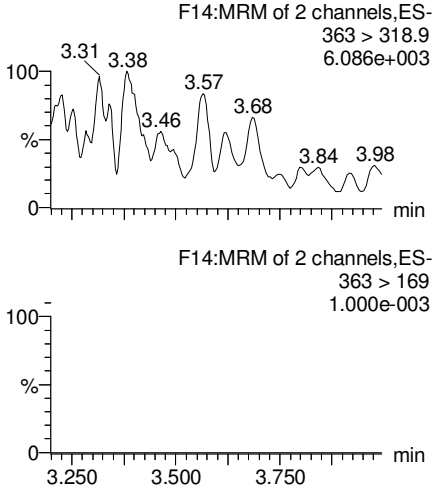
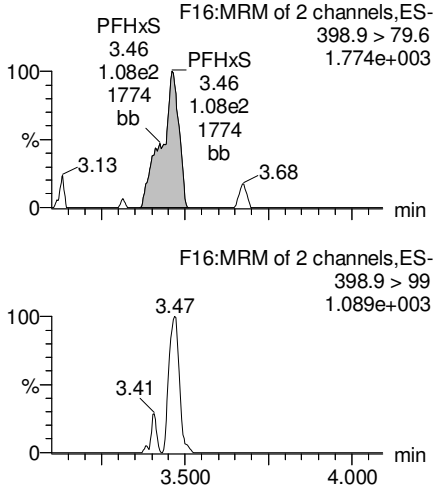
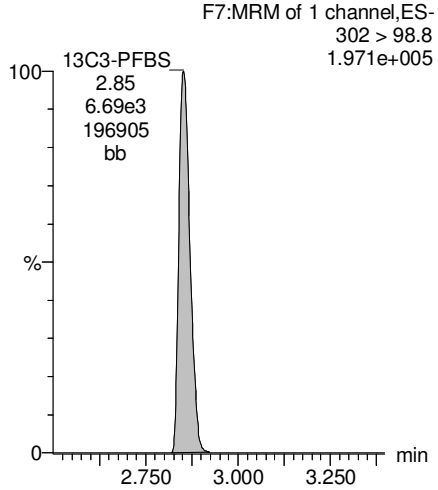


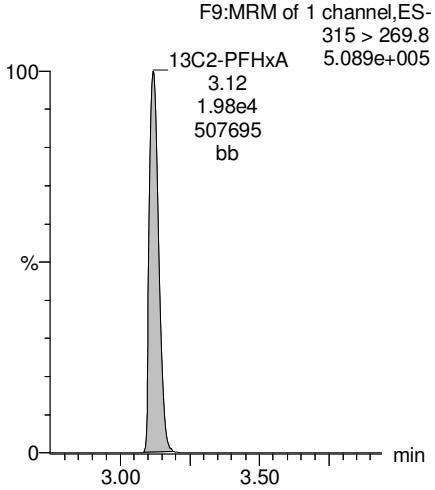
Total PFHxS



13C3-PFBS



13C2-PFHxA



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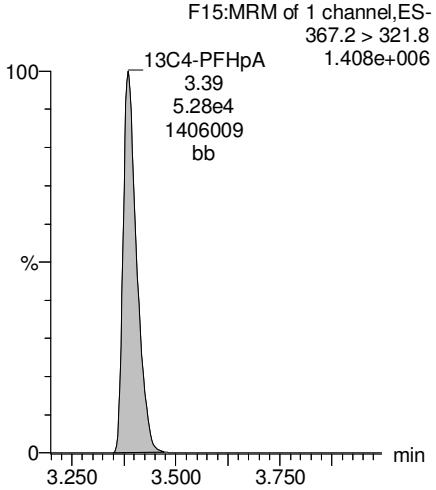
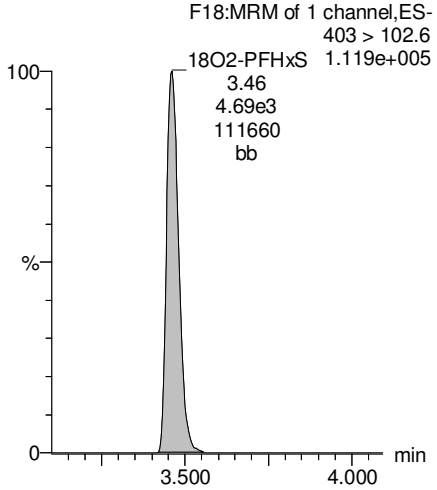


18O2-PFHxS



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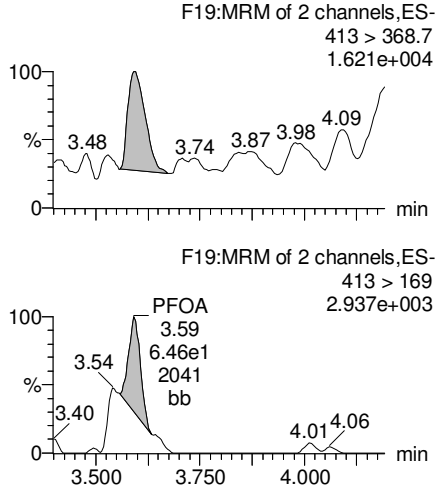
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:50 Pacific Daylight Time

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

Total PFOA



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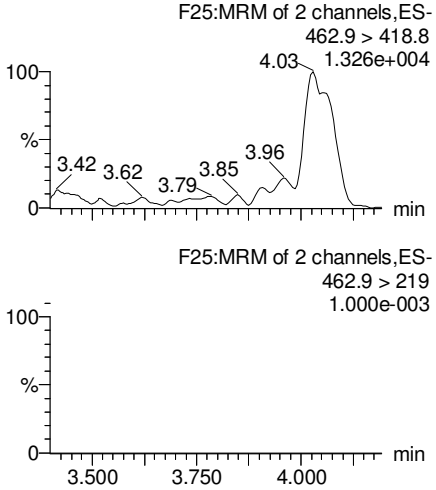
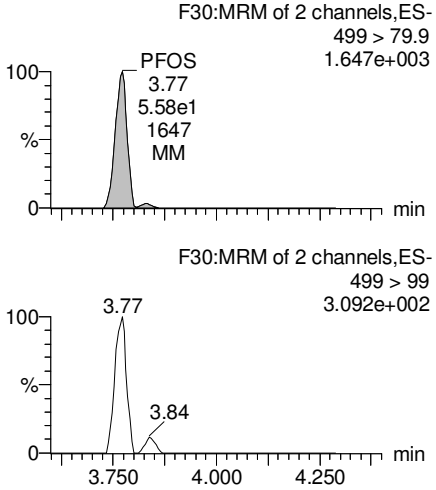
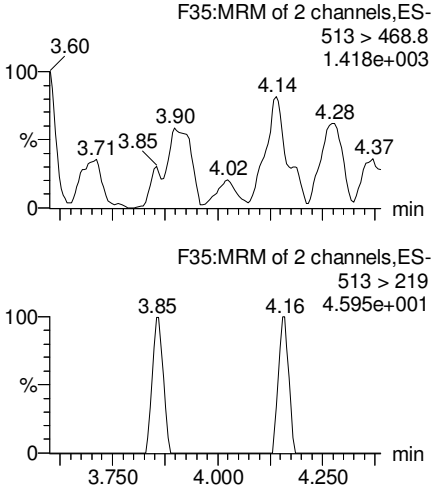


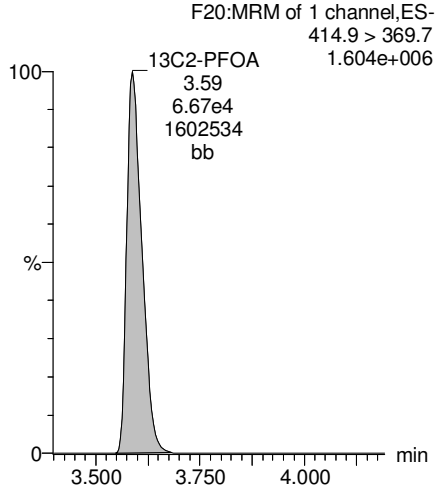
Total PFOS



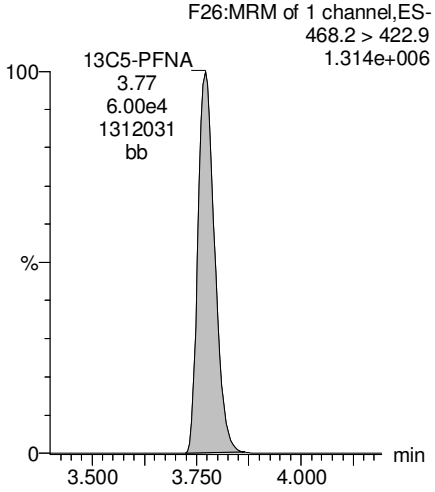
PFDA



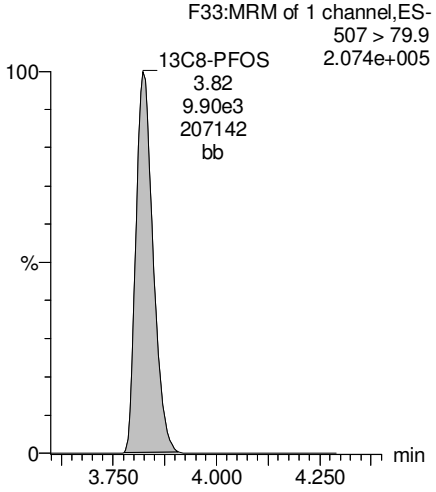
13C2-PFOA



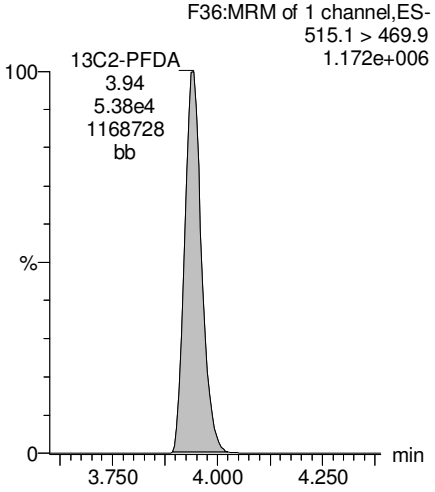
13C5-PFNA



13C8-PFOS



13C2-PFDA



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Vista Analytical Laboratory

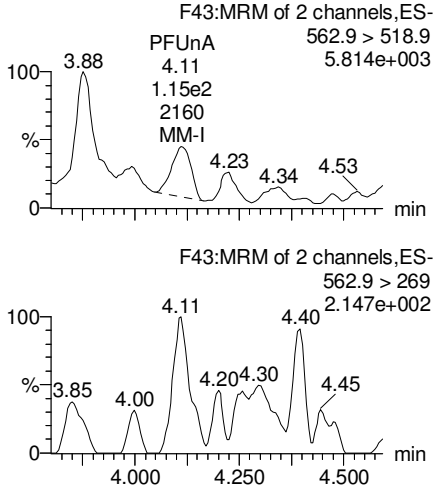
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

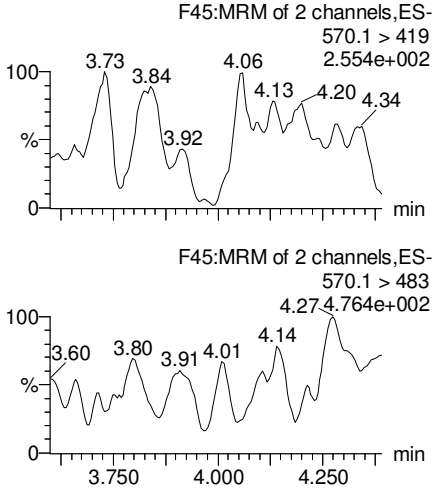
Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:50 Pacific Daylight Time

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

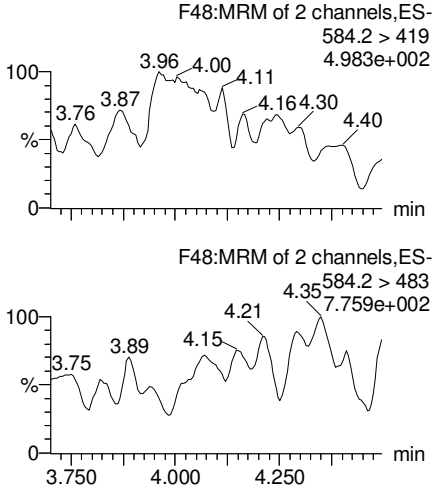
PFUnA



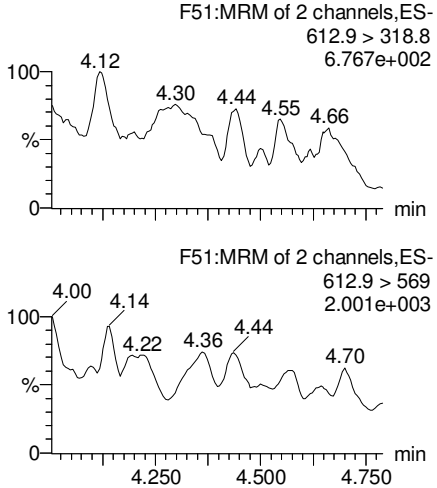
N-MeFOSAA



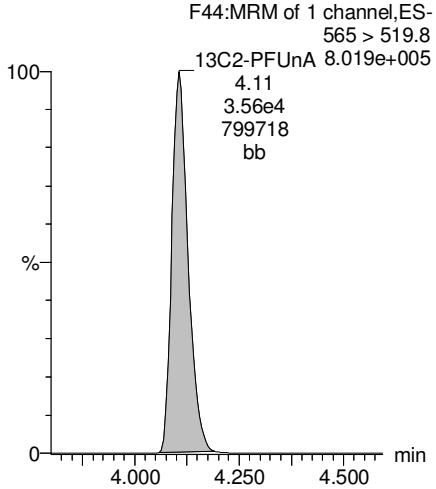
N-EtFOSAA



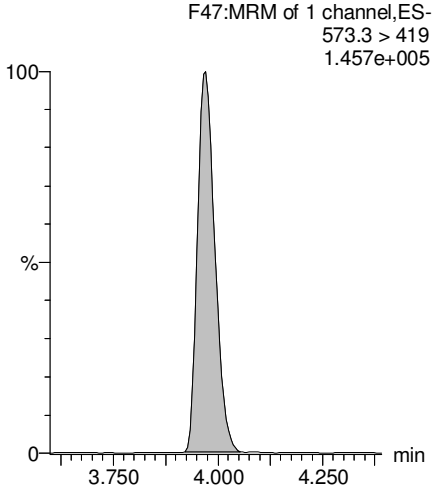
PFDoA



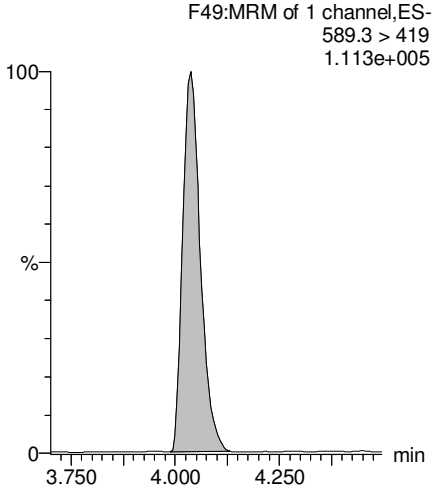
13C2-PFUnA



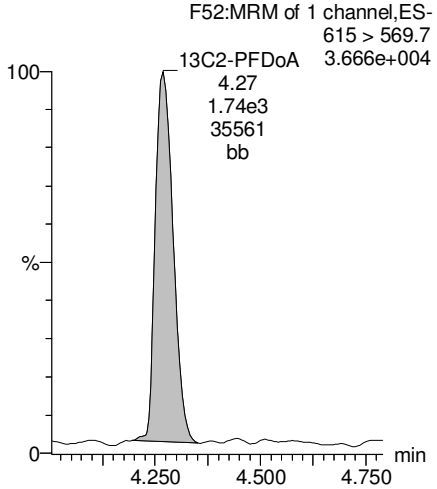
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



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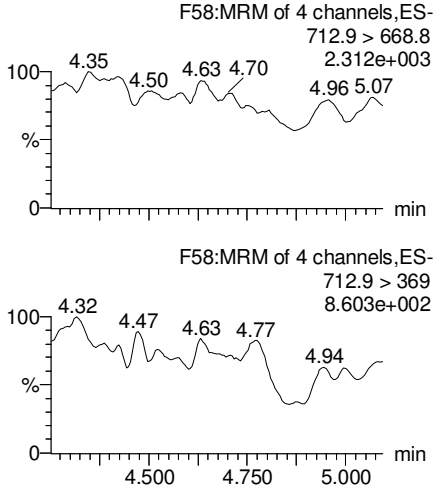
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

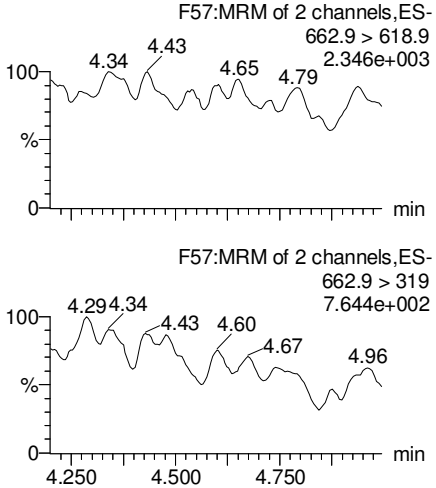
Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:50 Pacific Daylight Time

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

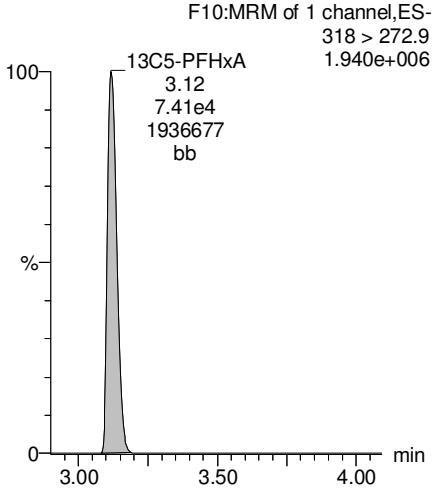
PFTeDA



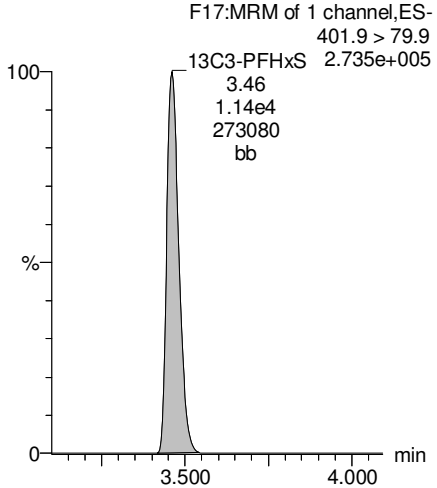
PFTrDA



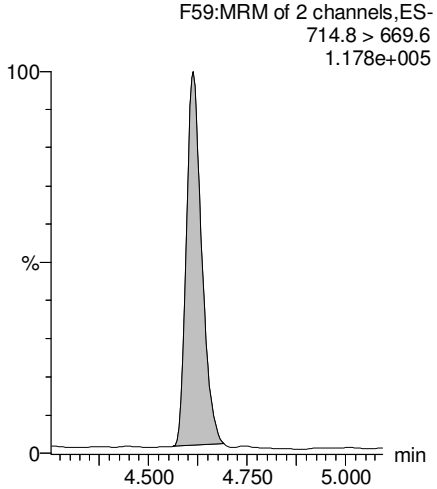
13C5-PFHxA



13C3-PFHxS



13C2-PFTeDA



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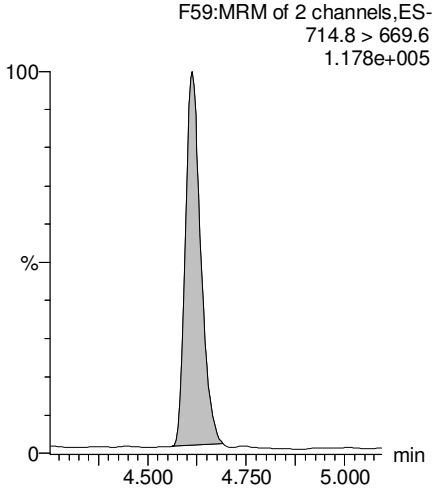
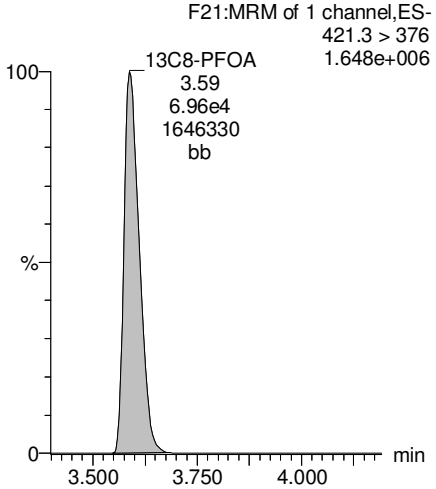
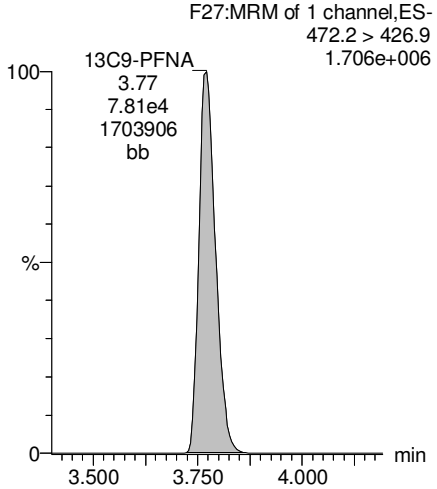


13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

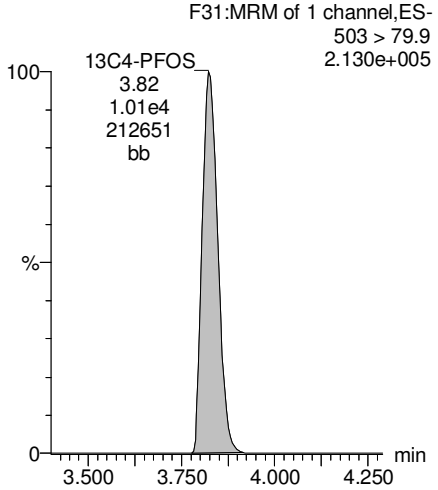
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-64.qld

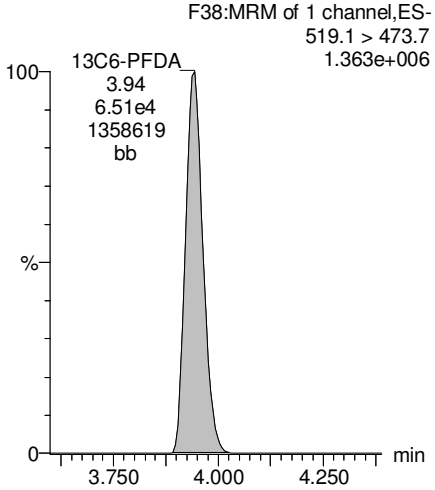
Last Altered: Wednesday, August 23, 2017 10:14:20 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:15:50 Pacific Daylight Time

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

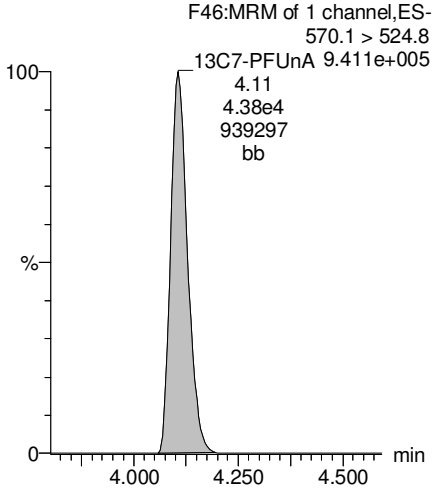
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:23:45 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7	3.59e2	6.20e3	0.1196		2.89	2.85	0.723	2.95	
2	4	PFHxA	313.2 > 268.9		2.04e4	0.1196		3.14				
3	5	PFHpA	363 > 318.9		5.27e4	0.1196		3.40				
4	6	PFHxS	398.9 > 79.6	8.58e1	3.98e3	0.1196		3.41	3.46	0.269	1.19	
5	8	PFOA	413 > 368.7	8.17e2	6.32e4	0.1196		3.59	3.60	0.162	0.305	
6	10	PFNA	462.9 > 418.8		5.43e4	0.1196		3.75				
7	12	PFOS	499 > 79.9	1.89e1	1.01e4	0.1196		3.80	3.81	0.0233	0.0960	
8	13	PFDA	513 > 468.8		5.08e4	0.1196		3.96				
9	15	N-MeFOSAA	570.1 > 419		8.97e3	0.1196		3.92				
10	16	N-EtFOSAA	584.2 > 419		7.50e3	0.1196		3.97				
11	17	PFUnA	562.9 > 518.9		4.32e4	0.1196		4.12				
12	19	PFDoA	612.9 > 318.8		2.33e3	0.1196		4.28				

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:23:55 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		2.33e3	0.1196		4.45				
2	22	PFTeDA	712.9 > 668.8		3.06e3	0.1196		4.54				
3	30	13C3-PFBS	302 > 98.8	6.20e3	7.68e4	0.1196	0.032	2.89	2.85	0.404	107	102.3
4	31	13C2-PFHxA	315 > 269.8	2.04e4	7.68e4	0.1196	0.304	3.14	3.12	1.33	36.5	87.4
5	32	13C4-PFHpA	367.2 > 321.8	5.27e4	7.68e4	0.1196	0.341	3.40	3.39	3.43	83.9	80.3
6	33	18O2-PFHxS	403 > 102.6	3.98e3	1.18e4	0.1196	0.445	3.41	3.46	4.23	79.4	76.0
7	35	13C2-PFOA	414.9 > 369.7	6.32e4	6.98e4	0.1196	1.081	3.59	3.59	11.3	87.5	83.8
8	36	13C5-PFNA	468.2 > 422.9	5.43e4	7.43e4	0.1196	0.908	3.75	3.77	9.13	84.0	80.4
9	38	13C8-PFOS	507 > 79.9	1.01e4	1.12e4	0.1196	1.076	3.77	3.82	11.2	87.2	83.5
10	39	13C2-PFDA	515.1 > 469.9	5.08e4	6.85e4	0.1196	1.002	3.96	3.94	9.26	77.3	74.0

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:24:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	41	d3-N-MeFOSAA	573.3 > 419	8.97e3	5.52e4	0.1196	0.016	3.99	3.97	2.03	1080	79.4	
2	42	d5-N-EtFOSAA	589.3 > 419	7.50e3	5.52e4	0.1196	0.015	4.06	4.04	1.70	915	67.4	
3	43	13C2-PFUnA	565 > 519.8	4.32e4	5.52e4	0.1196	1.045	4.12	4.11	9.78	78.3	74.9	
4	44	13C2-PFDoA	615 > 569.7	2.33e3	5.52e4	0.1196	0.101	4.29	4.27	0.528	43.9	42.0	H
5	46	13C2-PFTeDA	714.8 > 669.6	3.06e3	5.52e4	0.1196	0.583	4.54	4.61	0.694	9.95	9.5	H
6	52	13C5-PFHxA	318 > 272.9	7.68e4	7.68e4	0.1196	1.000	3.14	3.12	5.00	41.8	100.0	
7	53	13C3-PFHxS	401.9 > 79.9	1.18e4	1.18e4	0.1196	1.000	3.41	3.46	12.5	104	100.0	
8	54	13C8-PFOA	421.3 > 376	6.98e4	6.98e4	0.1196	1.000	3.55	3.59	12.5	104	100.0	
9	55	13C9-PFNA	472.2 > 426.9	7.43e4	7.43e4	0.1196	1.000	3.79	3.77	12.5	104	100.0	
10	56	13C4-PFOS	503 > 79.9	1.12e4	1.12e4	0.1196	1.000	3.77	3.82	12.5	104	100.0	
11	57	13C6-PFDA	519.1 > 473.7	6.85e4	6.85e4	0.1196	1.000	3.95	3.94	12.5	104	100.0	
12	58	13C7-PFUnA	570.1 > 524.8	5.52e4	5.52e4	0.1196	1.000	4.12	4.11	12.5	104	100.0	
13	59	Total PFBS	299 > 79.7	3.59e2	6.20e3	0.1196		3.06		0.723	2.95		
14	60	Total PFHxS	398.9 > 79.6	8.58e1	3.98e3	0.1196		3.58		0.269	1.19		
15	61	Total PFOA	413 > 368.7	9.32e2	6.32e4	0.1196		3.71		0.162	0.305		
16	62	Total PFOS	499 > 79.9	1.89e1	1.01e4	0.1196		3.96		0.0233	0.0960		
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	8.97e3	0.1196		4.11		0.000			
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	7.50e3	0.1196		4.18		0.000			

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:24:20 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.85	358.768	6200.295	0.723	bb	3.0

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.46	85.831	3981.812	0.269	MM	1.2

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.60	816.594	63182.059	0.162	db	0.3
2	61	Total PFOA	413 > 368.7	3.54	115.197	63182.059	0.023	bdl	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.81	18.851	10094.103	0.023	MM	0.1

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Vista Analytical Laboratory

Revd: MM 8/23/17

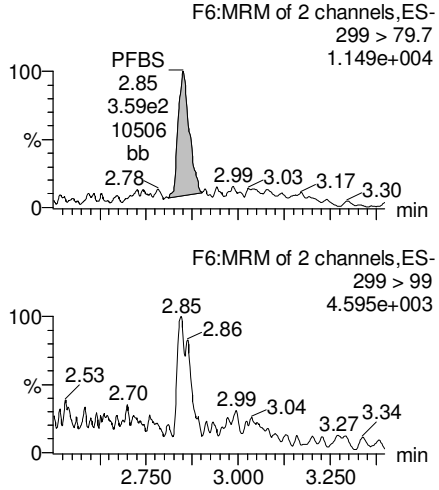
Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:24:20 Pacific Daylight Time

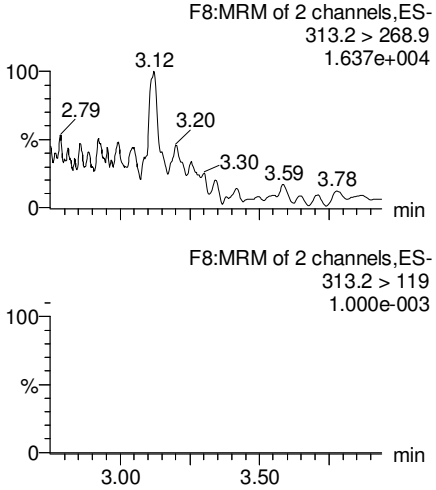
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

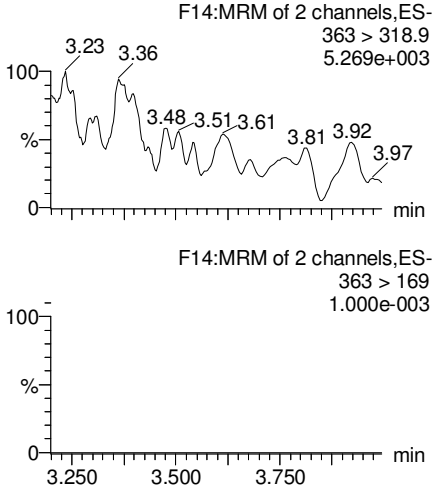
Total PFBS



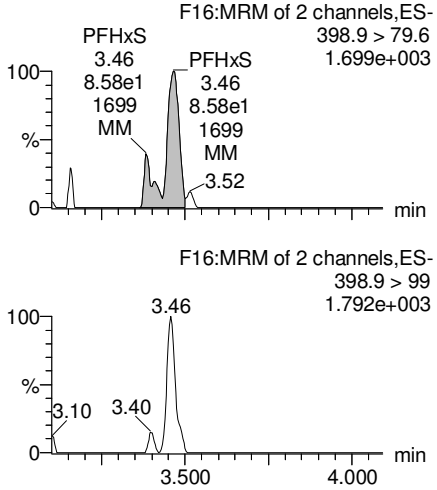
PFHxA



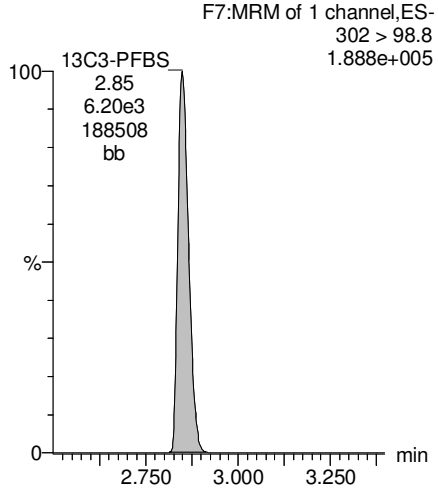
PFHpA



Total PFHxS



13C3-PFBS



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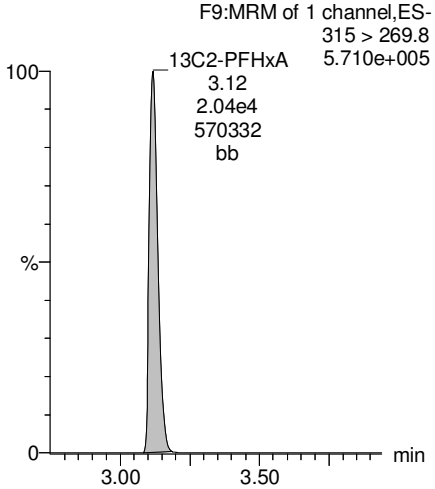

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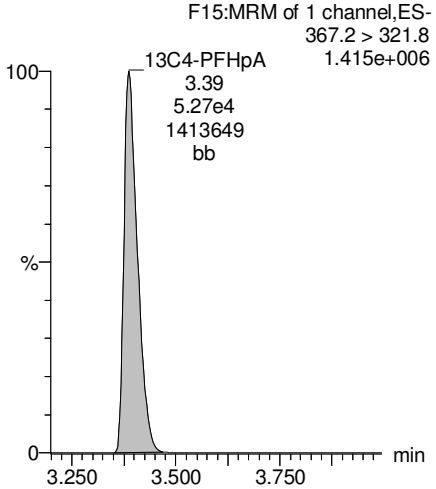

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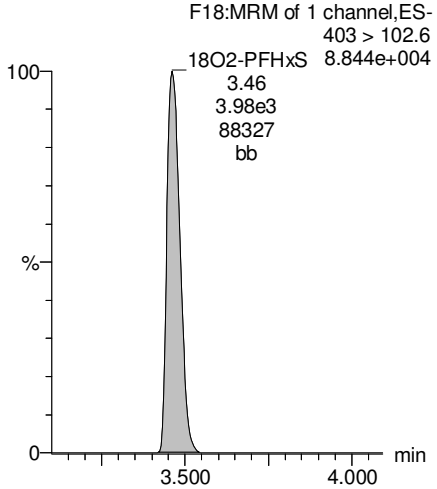

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Vista Analytical Laboratory

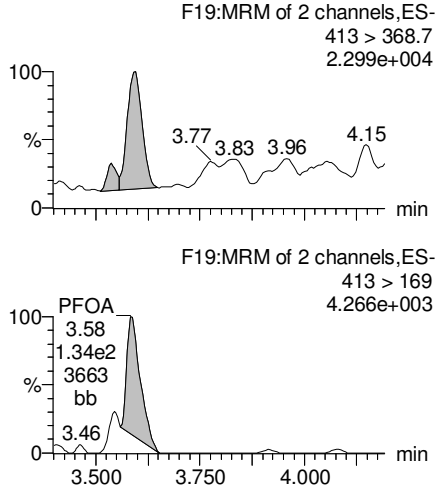
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:24:20 Pacific Daylight Time

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

Total PFOA



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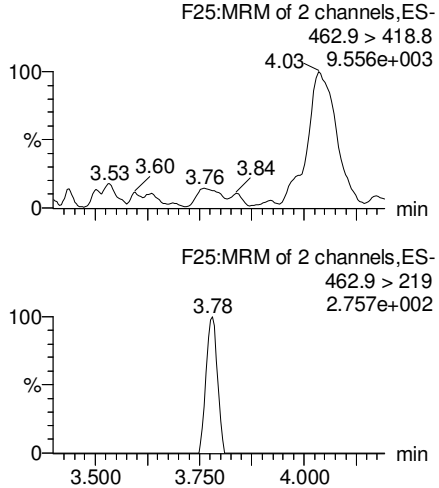
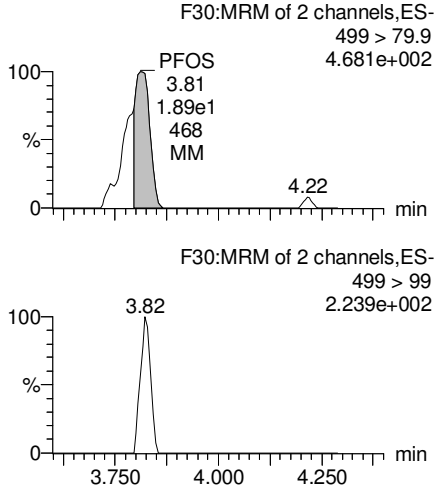


Total PFOS



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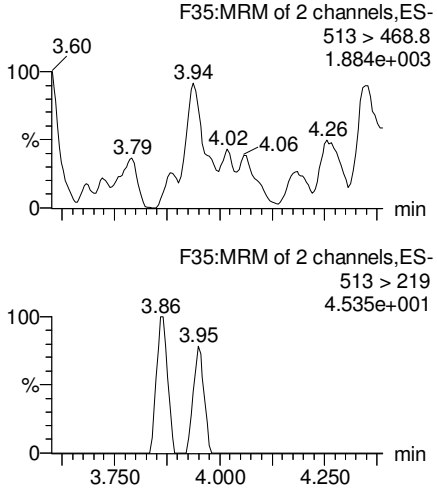

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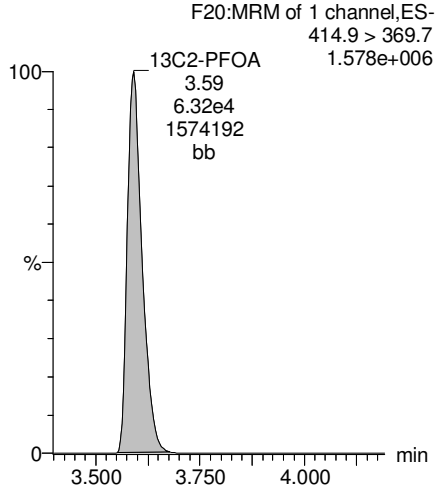

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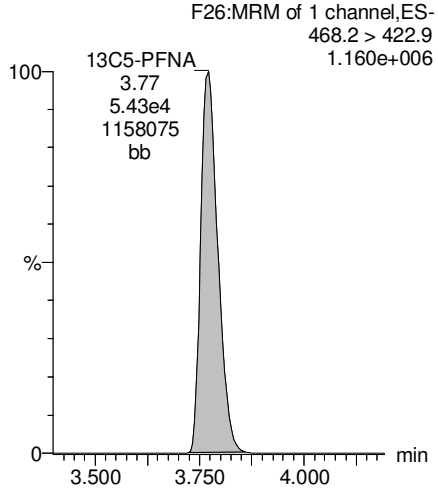
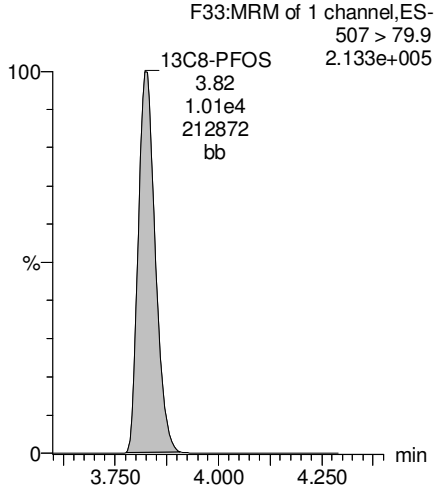
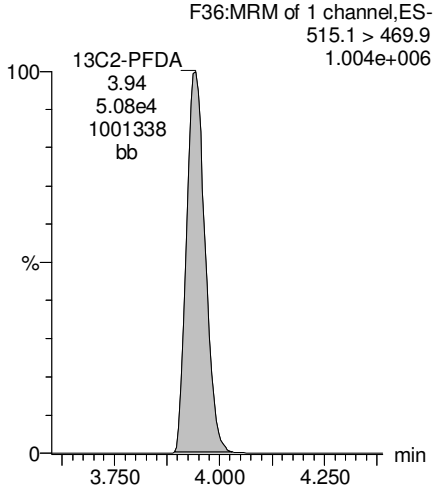


13C8-PFOS



13C2-PFDA



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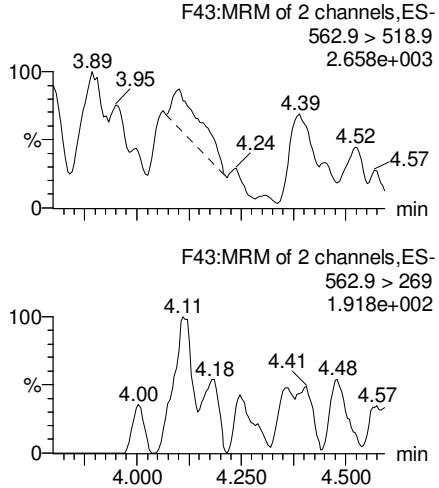
Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

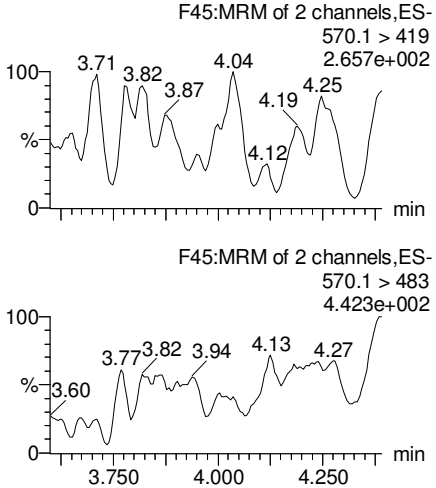
Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:24:20 Pacific Daylight Time

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

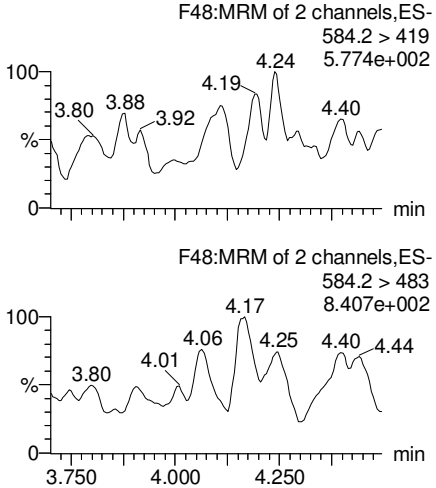
PFUnA



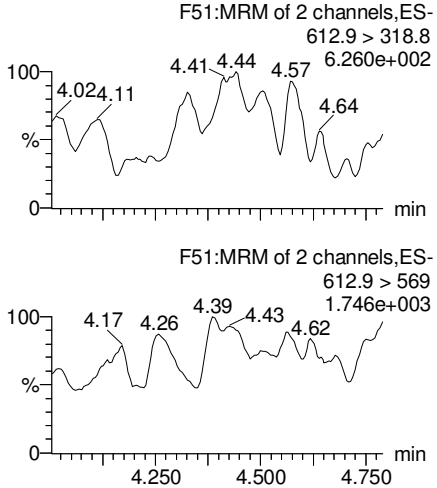
N-MeFOSAA



N-EtFOSAA



PFDoA



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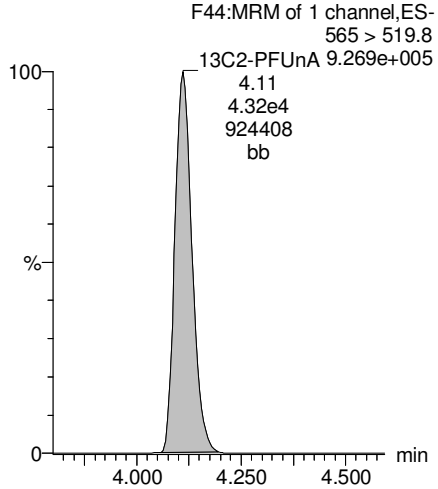

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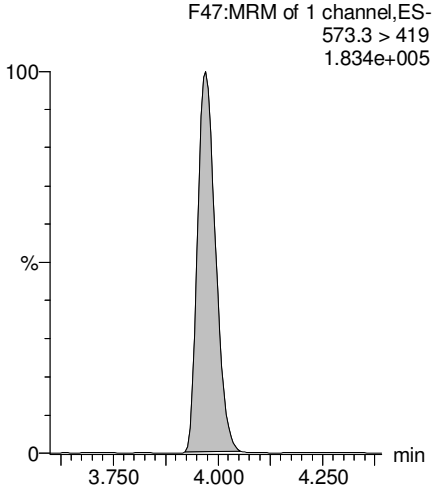

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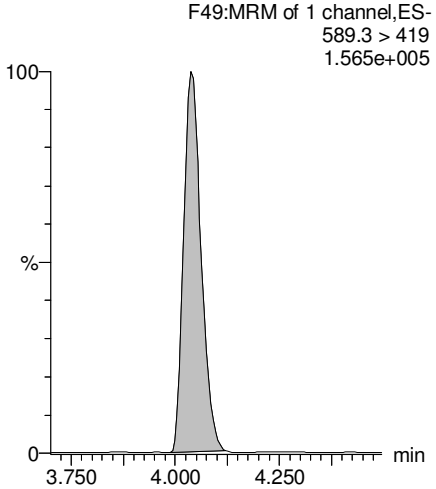
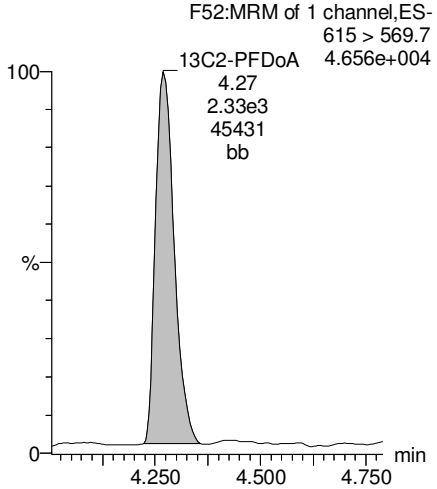


13C2-PFDoA



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Vista Analytical Laboratory

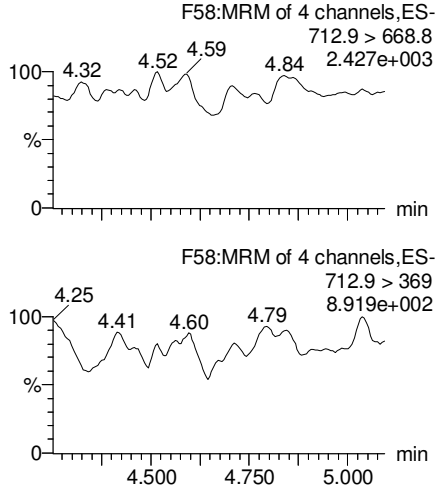
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

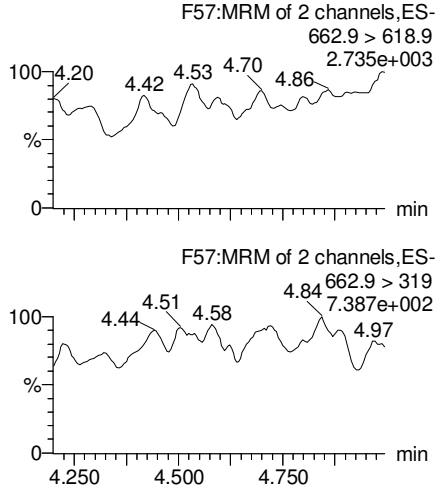
Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:24:20 Pacific Daylight Time

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

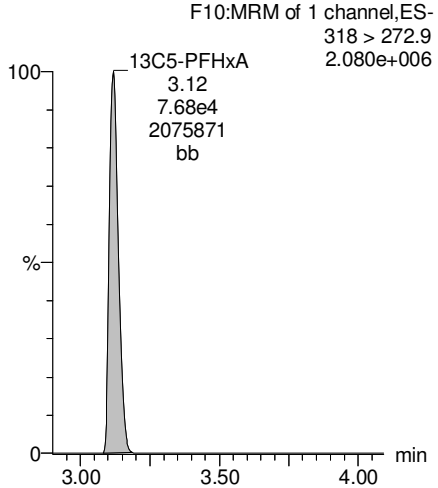
PFTeDA



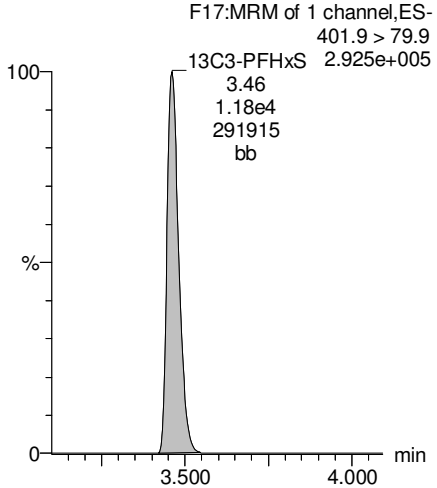
PFTrDA



13C5-PFHxA



13C3-PFHxS



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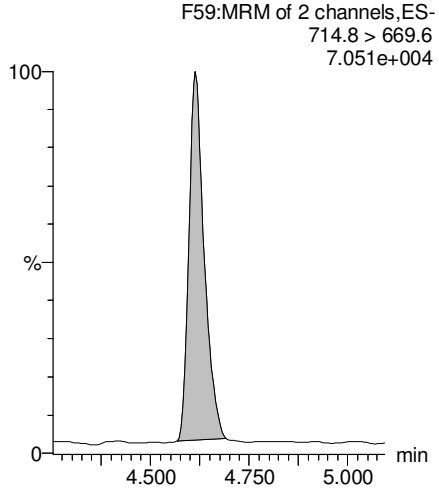

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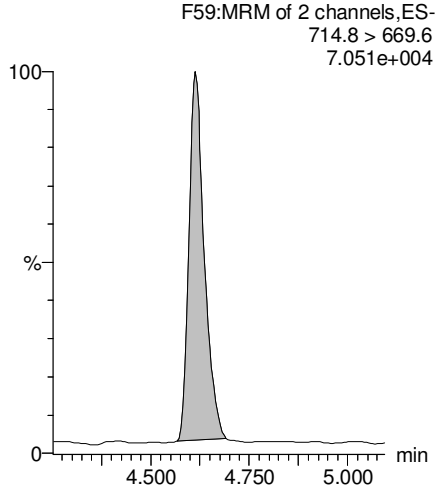
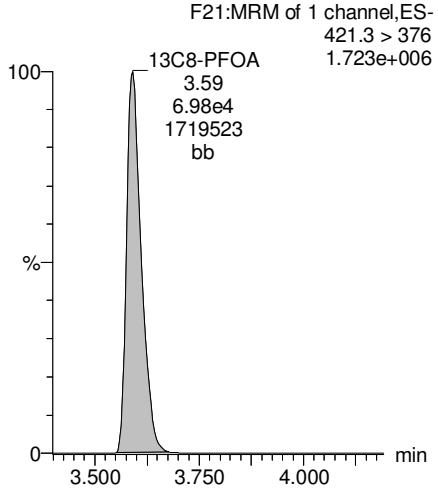
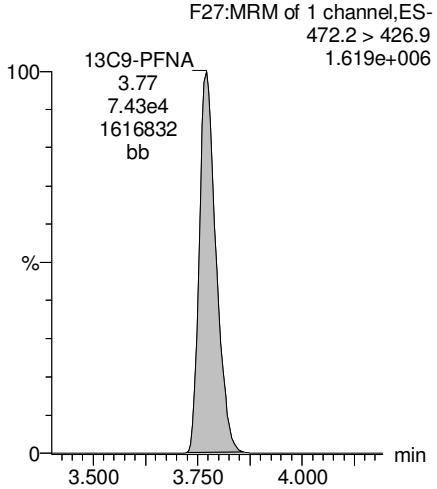


13C8-PFOA



13C9-PFNA



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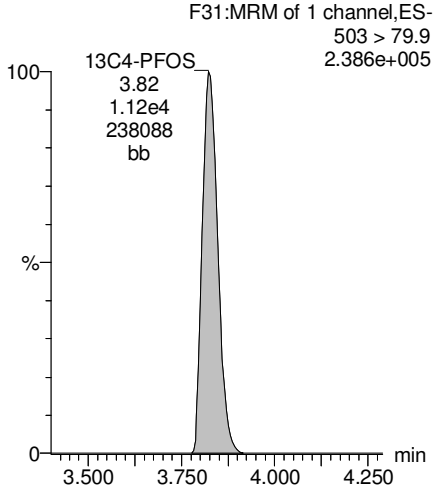
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-65.qld

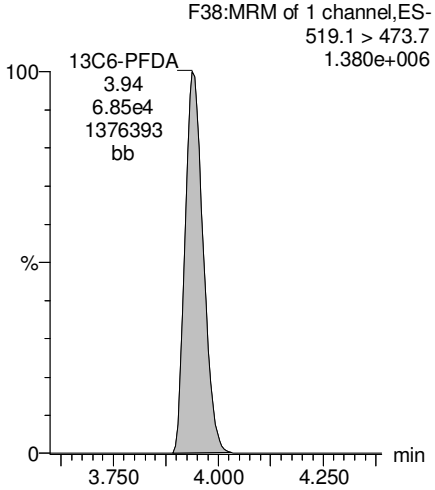
Last Altered: Wednesday, August 23, 2017 10:23:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:24:20 Pacific Daylight Time

Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

13C4-PFOS



13C6-PFDA



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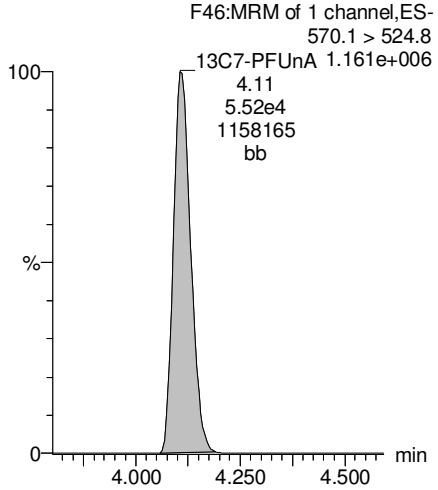

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:20 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.94e3	0.1191		2.89				
2	4	PFHxA	313.2 > 268.9		1.94e4	0.1191		3.14				
3	5	PFHpA	363 > 318.9		4.94e4	0.1191		3.40				
4	6	PFHxS	398.9 > 79.6	2.06e1	4.23e3	0.1191		3.41	3.46	0.0608	0.0912	
5	8	PFOA	413 > 368.7		6.20e4	0.1191		3.59				
6	10	PFNA	462.9 > 418.8		4.92e4	0.1191		3.75				
7	12	PFOS	499 > 79.9		8.63e3	0.1191		3.80				
8	13	PFDA	513 > 468.8		4.82e4	0.1191		3.96				
9	15	N-MeFOSAA	570.1 > 419		7.86e3	0.1191		3.92				
10	16	N-EtFOSAA	584.2 > 419		6.79e3	0.1191		3.97				
11	17	PFUnA	562.9 > 518.9		4.12e4	0.1191		4.12				
12	19	PFDoA	612.9 > 318.8		2.65e3	0.1191		4.28				

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Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:33 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		2.65e3	0.1191		4.45				
2	22	PFTeDA	712.9 > 668.8		4.08e3	0.1191		4.54				
3	30	13C3-PFBS	302 > 98.8	5.94e3	6.96e4	0.1191	0.032	2.89	2.85	0.427	114	108.2
4	31	13C2-PFHxA	315 > 269.8	1.94e4	6.96e4	0.1191	0.304	3.14	3.12	1.40	38.6	91.9
5	32	13C4-PFHpA	367.2 > 321.8	4.94e4	6.96e4	0.1191	0.341	3.40	3.39	3.55	87.4	83.3
6	33	18O2-PFHxS	403 > 102.6	4.23e3	1.04e4	0.1191	0.445	3.41	3.46	5.09	96.0	91.4
7	35	13C2-PFOA	414.9 > 369.7	6.20e4	6.38e4	0.1191	1.081	3.59	3.59	12.1	94.3	89.9
8	36	13C5-PFNA	468.2 > 422.9	4.92e4	6.62e4	0.1191	0.908	3.75	3.77	9.29	85.9	81.8
9	38	13C8-PFOS	507 > 79.9	8.63e3	9.32e3	0.1191	1.076	3.77	3.82	11.6	90.3	86.1
10	39	13C2-PFDA	515.1 > 469.9	4.82e4	5.49e4	0.1191	1.002	3.96	3.94	11.0	92.0	87.7

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	41	d3-N-MeFOSAA	573.3 > 419	7.86e3	4.93e4	0.1191	0.016	3.99	3.97	1.99	1060	77.9	
2	42	d5-N-EtFOSAA	589.3 > 419	6.79e3	4.93e4	0.1191	0.015	4.06	4.04	1.72	932	68.3	
3	43	13C2-PFUnA	565 > 519.8	4.12e4	4.93e4	0.1191	1.045	4.12	4.11	10.4	83.8	79.9	
4	44	13C2-PFDoA	615 > 569.7	2.65e3	4.93e4	0.1191	0.101	4.29	4.26	0.671	56.0	53.4	
5	46	13C2-PFTeDA	714.8 > 669.6	4.08e3	4.93e4	0.1191	0.583	4.54	4.61	1.03	14.9	14.2	H
6	52	13C5-PFHxA	318 > 272.9	6.96e4	6.96e4	0.1191	1.000	3.14	3.12	5.00	42.0	100.0	
7	53	13C3-PFHxS	401.9 > 79.9	1.04e4	1.04e4	0.1191	1.000	3.41	3.46	12.5	105	100.0	
8	54	13C8-PFOA	421.3 > 376	6.38e4	6.38e4	0.1191	1.000	3.55	3.59	12.5	105	100.0	
9	55	13C9-PFNA	472.2 > 426.9	6.62e4	6.62e4	0.1191	1.000	3.79	3.77	12.5	105	100.0	
10	56	13C4-PFOS	503 > 79.9	9.32e3	9.32e3	0.1191	1.000	3.77	3.82	12.5	105	100.0	
11	57	13C6-PFDA	519.1 > 473.7	5.49e4	5.49e4	0.1191	1.000	3.95	3.94	12.5	105	100.0	
12	58	13C7-PFUnA	570.1 > 524.8	4.93e4	4.93e4	0.1191	1.000	4.12	4.11	12.5	105	100.0	
13	59	Total PFBS	299 > 79.7	0.00e0	5.94e3	0.1191		3.06		0.000			
14	60	Total PFHxS	398.9 > 79.6	2.06e1	4.23e3	0.1191		3.58		0.0608	0.0912		
15	61	Total PFOA	413 > 368.7	0.00e0	6.20e4	0.1191		3.71		0.000			
16	62	Total PFOS	499 > 79.9	0.00e0	8.63e3	0.1191		3.96		0.000			
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	7.86e3	0.1191		4.11		0.000			
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	6.79e3	0.1191		4.18		0.000			

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.46	20.596	4232.599	0.061	MM	0.1

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7			62003.652		MM-I	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
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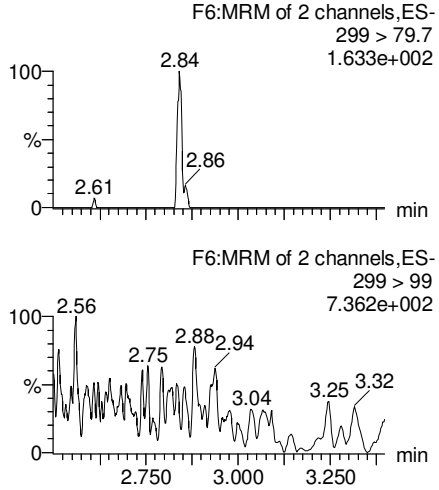
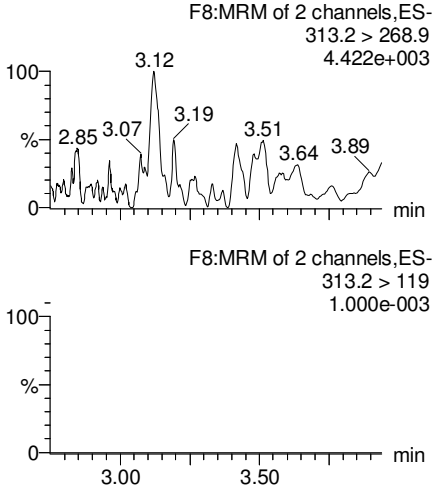
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

Total PFBS



PFHxA



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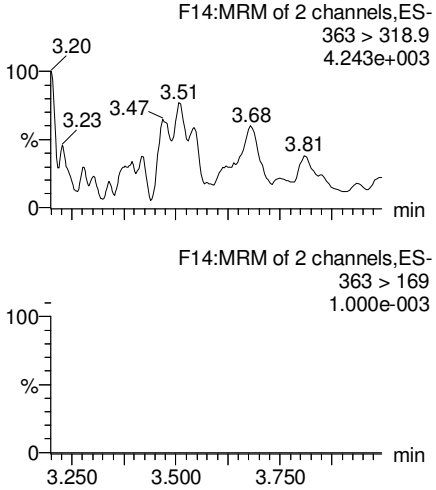
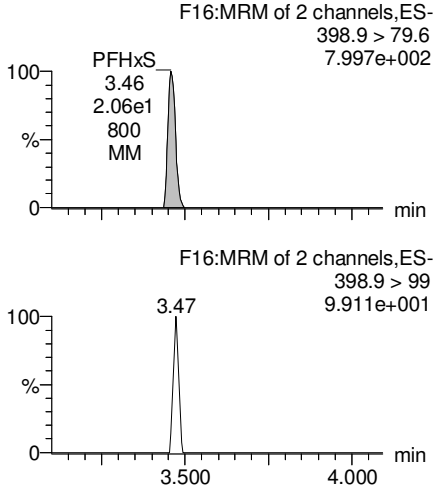


Total PFHxS



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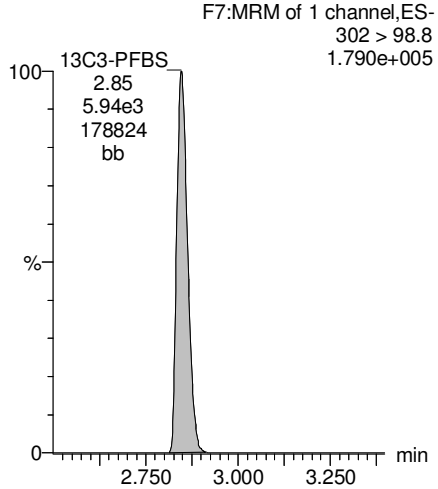

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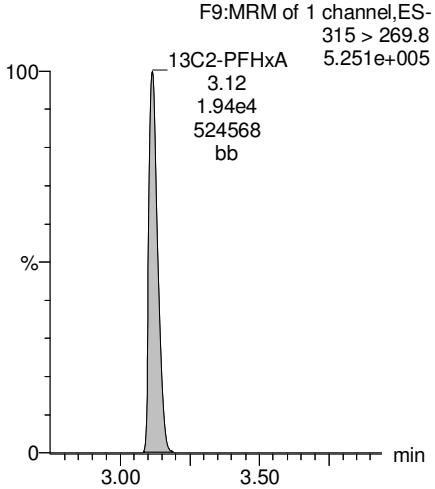

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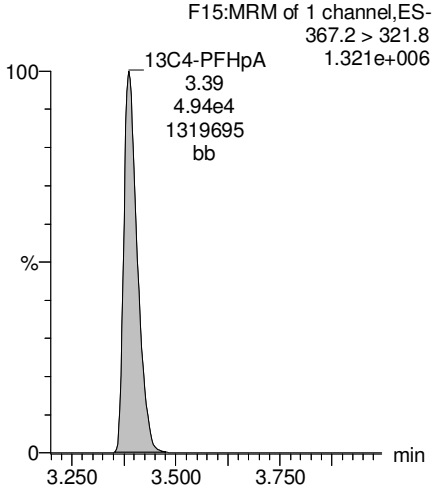

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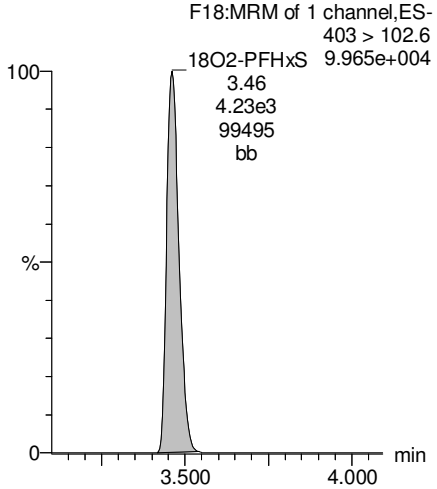

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Vista Analytical Laboratory

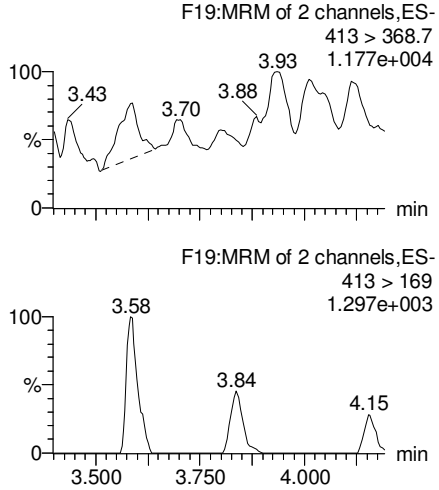
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:50 Pacific Daylight Time

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

Total PFOA



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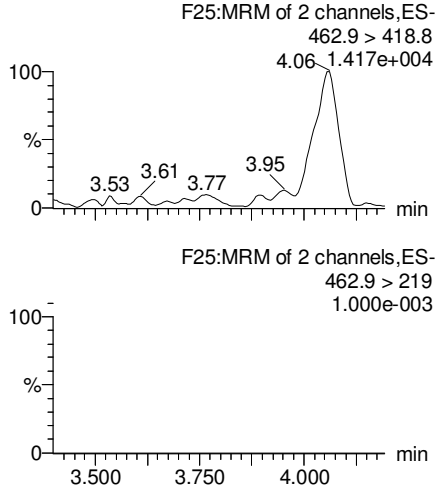

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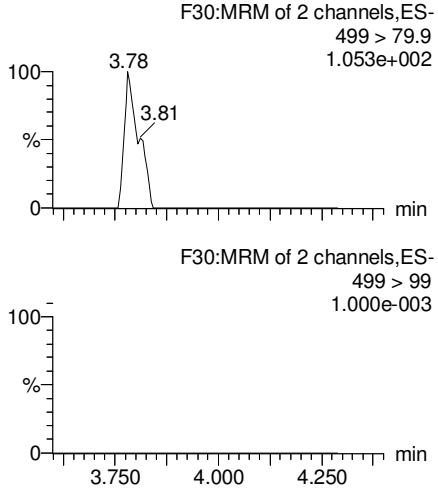

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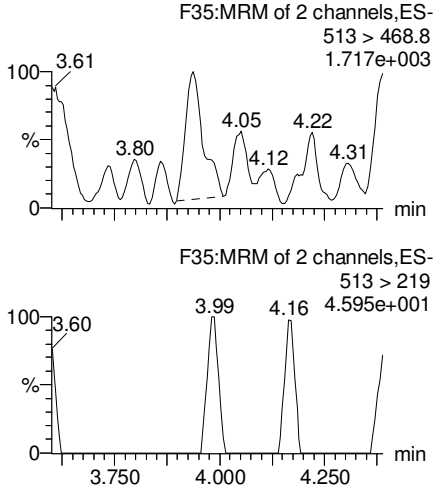

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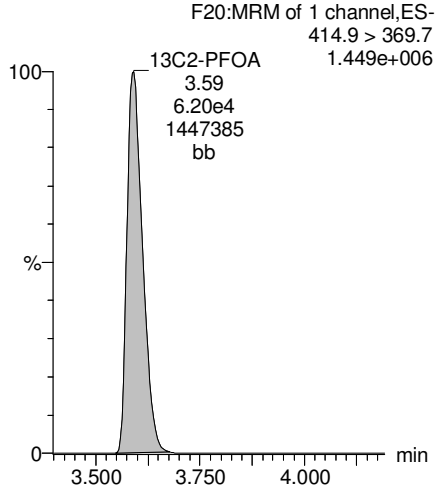

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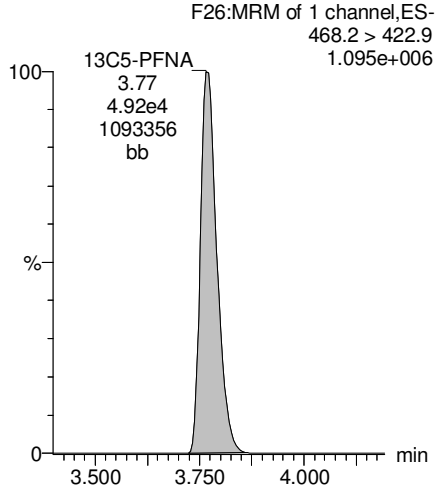

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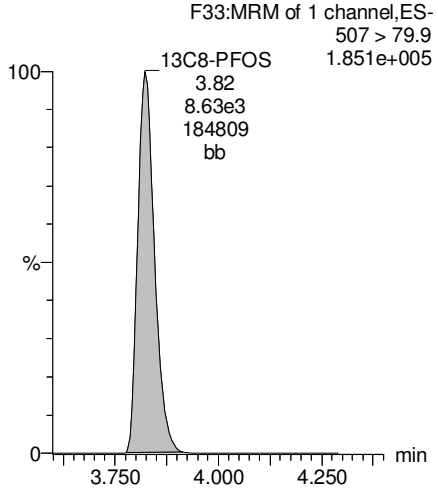

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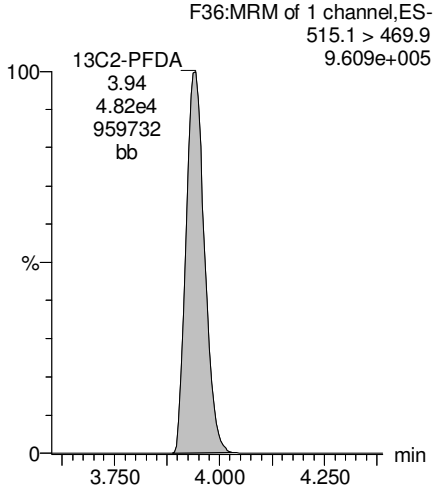

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Vista Analytical Laboratory

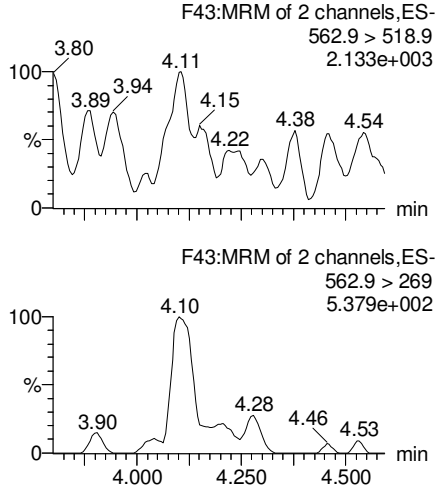
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:50 Pacific Daylight Time

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

PFUnA



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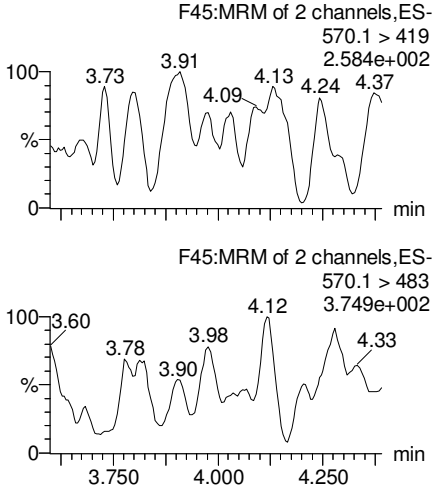

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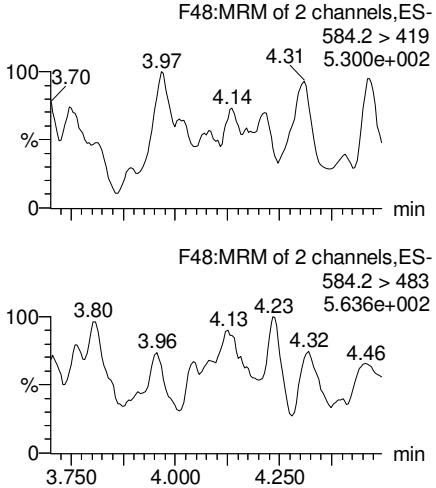

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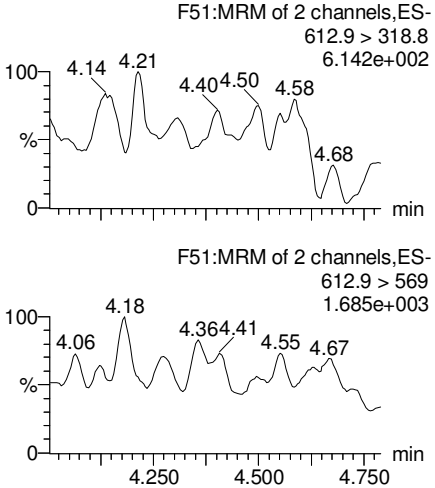

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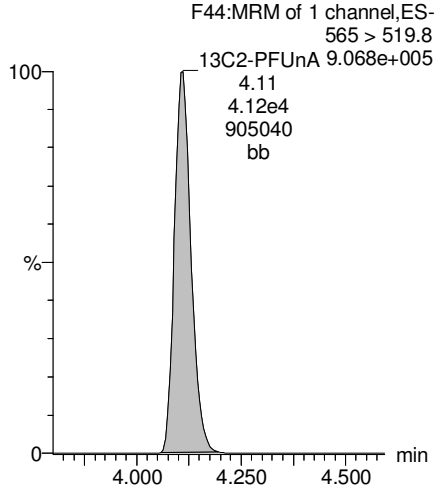

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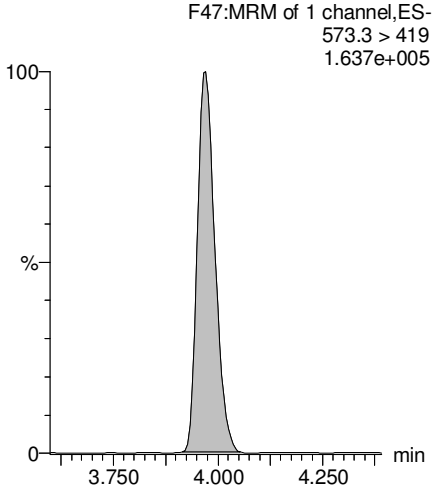

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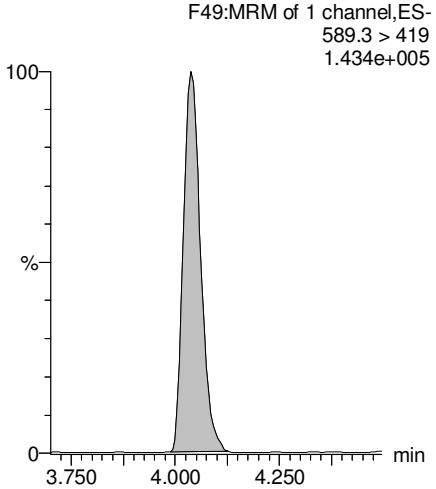

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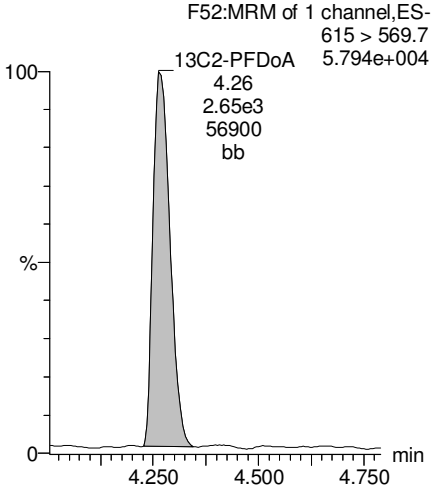

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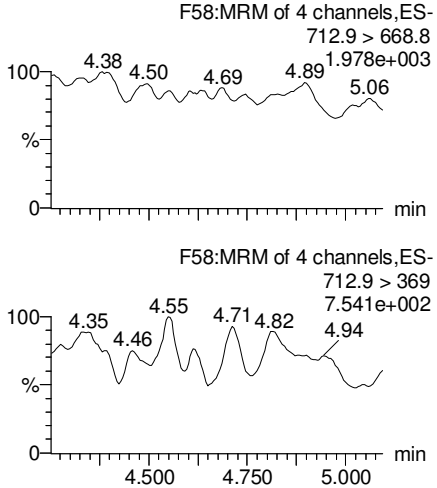
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:50 Pacific Daylight Time

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

PFTeDA



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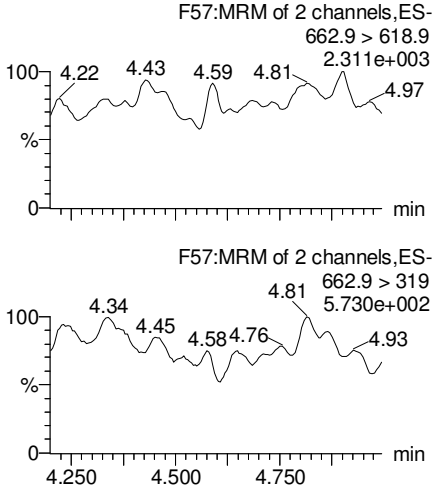

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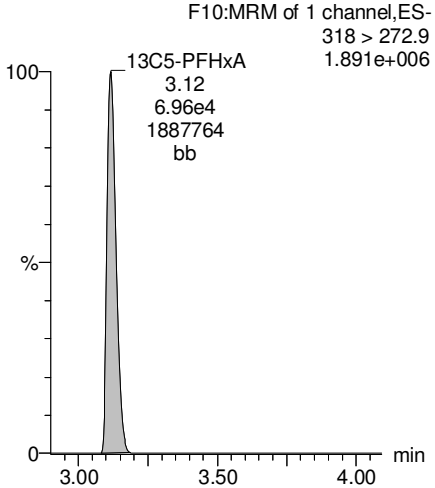

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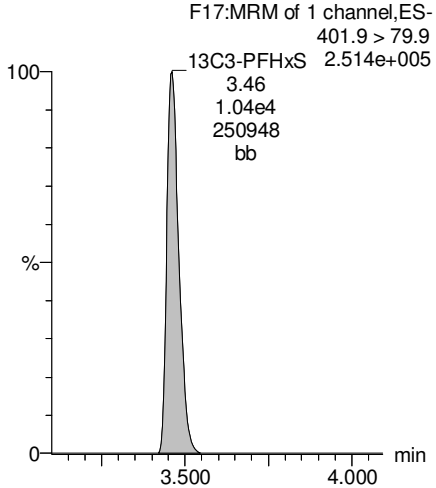

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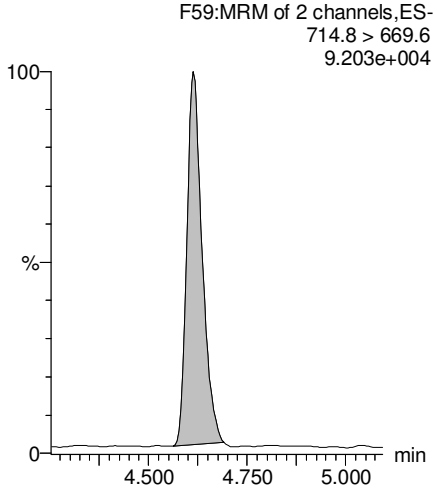

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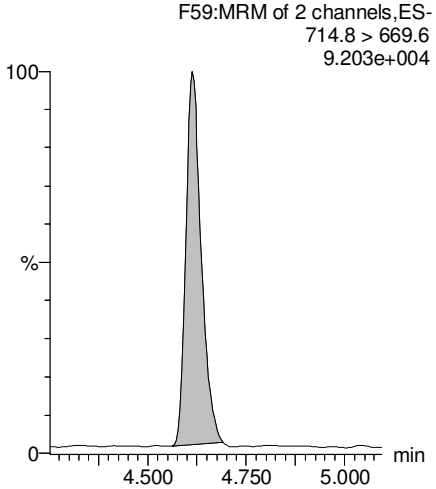

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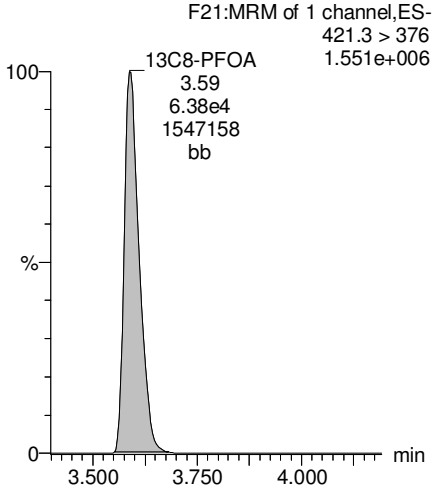

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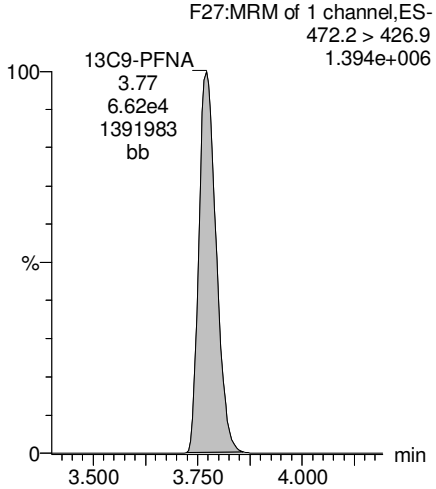

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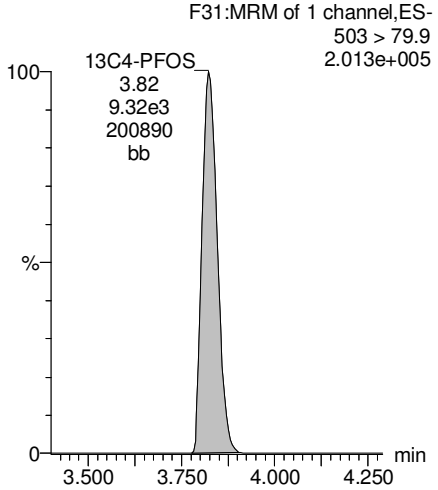
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-66.qld

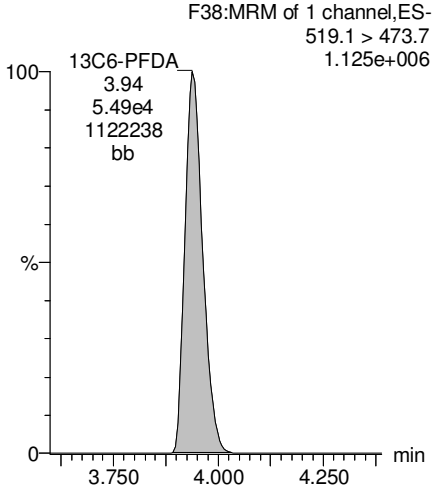
Last Altered: Wednesday, August 23, 2017 10:30:02 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:30:50 Pacific Daylight Time

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

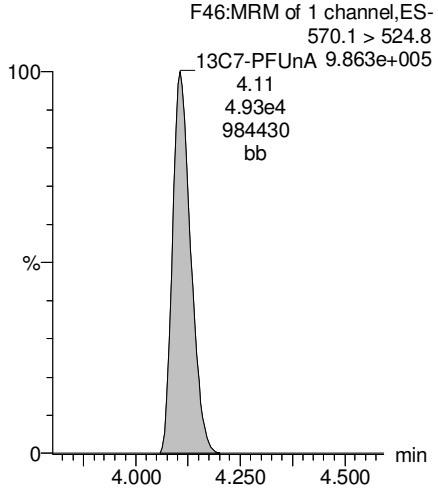
13C4-PFOS



13C6-PFDA



13C7-PFUnA



GM 8/23/17

Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:33:44 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.97e3	0.1191		2.89				
2	4	PFHxA	313.2 > 268.9		1.91e4	0.1191		3.14				
3	5	PFHpA	363 > 318.9		4.72e4	0.1191		3.40				
4	6	PFHxS	398.9 > 79.6	1.35e1	4.14e3	0.1191		3.41	3.46	0.0407		
5	8	PFOA	413 > 368.7		5.81e4	0.1191		3.59				
6	10	PFNA	462.9 > 418.8		4.97e4	0.1191		3.75				
7	12	PFOS	499 > 79.9		8.27e3	0.1191		3.80				
8	13	PFDA	513 > 468.8		3.96e4	0.1191		3.96				
9	15	N-MeFOSAA	570.1 > 419		6.42e3	0.1191		3.92				
10	16	N-EtFOSAA	584.2 > 419		5.66e3	0.1191		3.97				
11	17	PFUnA	562.9 > 518.9		3.51e4	0.1191		4.12				
12	19	PFDoA	612.9 > 318.8		1.77e3	0.1191		4.28				

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:34:06 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	21	PFTrDA	662.9 > 618.9		1.77e3	0.1191		4.45				
2	22	PFTeDA	712.9 > 668.8		4.33e3	0.1191		4.54				
3	30	13C3-PFBS	302 > 98.8	5.97e3	7.16e4	0.1191	0.032	2.89	2.84	0.417	111	105.6
4	31	13C2-PFHxA	315 > 269.8	1.91e4	7.16e4	0.1191	0.304	3.14	3.11	1.34	37.0	88.1
5	32	13C4-PFHpA	367.2 > 321.8	4.72e4	7.16e4	0.1191	0.341	3.40	3.39	3.30	81.1	77.3
6	33	18O2-PFHxS	403 > 102.6	4.14e3	1.03e4	0.1191	0.445	3.41	3.46	5.03	94.8	90.3
7	35	13C2-PFOA	414.9 > 369.7	5.81e4	6.20e4	0.1191	1.081	3.59	3.59	11.7	91.1	86.8
8	36	13C5-PFNA	468.2 > 422.9	4.97e4	7.00e4	0.1191	0.908	3.75	3.77	8.88	82.1	78.2
9	38	13C8-PFOS	507 > 79.9	8.27e3	9.61e3	0.1191	1.076	3.77	3.82	10.8	83.9	80.0
10	39	13C2-PFDA	515.1 > 469.9	3.96e4	6.01e4	0.1191	1.002	3.96	3.94	8.24	69.1	65.8

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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:34:25 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	41	d3-N-MeFOSAA	573.3 > 419	6.42e3	4.76e4	0.1191	0.016	3.99	3.97	1.69	900	66.0	
2	42	d5-N-EtFOSAA	589.3 > 419	5.66e3	4.76e4	0.1191	0.015	4.06	4.04	1.49	806	59.0	
3	43	13C2-PFUnA	565 > 519.8	3.51e4	4.76e4	0.1191	1.045	4.12	4.11	9.21	74.0	70.5	
4	44	13C2-PFDoA	615 > 569.7	1.77e3	4.76e4	0.1191	0.101	4.29	4.27	0.466	38.9	37.1	H
5	46	13C2-PFTeDA	714.8 > 669.6	4.33e3	4.76e4	0.1191	0.583	4.54	4.62	1.14	16.4	15.6	H
6	52	13C5-PFHxA	318 > 272.9	7.16e4	7.16e4	0.1191	1.000	3.14	3.11	5.00	42.0	100.0	
7	53	13C3-PFHxS	401.9 > 79.9	1.03e4	1.03e4	0.1191	1.000	3.41	3.46	12.5	105	100.0	
8	54	13C8-PFOA	421.3 > 376	6.20e4	6.20e4	0.1191	1.000	3.55	3.60	12.5	105	100.0	
9	55	13C9-PFNA	472.2 > 426.9	7.00e4	7.00e4	0.1191	1.000	3.79	3.77	12.5	105	100.0	
10	56	13C4-PFOS	503 > 79.9	9.61e3	9.61e3	0.1191	1.000	3.77	3.82	12.5	105	100.0	
11	57	13C6-PFDA	519.1 > 473.7	6.01e4	6.01e4	0.1191	1.000	3.95	3.94	12.5	105	100.0	
12	58	13C7-PFUnA	570.1 > 524.8	4.76e4	4.76e4	0.1191	1.000	4.12	4.11	12.5	105	100.0	
13	59	Total PFBS	299 > 79.7	0.00e0	5.97e3	0.1191		3.06		0.000			
14	60	Total PFHxS	398.9 > 79.6	1.35e1	4.14e3	0.1191		3.58		0.000			
15	61	Total PFOA	413 > 368.7	0.00e0	5.81e4	0.1191		3.71		0.000			
16	62	Total PFOS	499 > 79.9	0.00e0	8.27e3	0.1191		3.96		0.000			
17	63	Total N-Me-FOSAA	570.1 > 419	0.00e0	6.42e3	0.1191		4.11		0.000			
18	64	Total N-EtFOSAA	584.2 > 419	0.00e0	5.66e3	0.1191		4.18		0.000			

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:34:25 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.46	13.489	4137.870	0.041	MMI	

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7			58144.063		MM-I	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1									

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Revd: MM 8/23/17

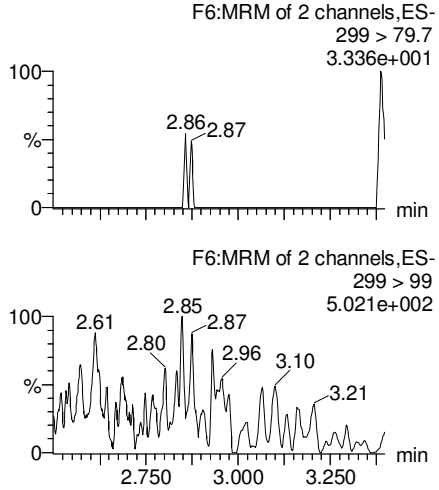
Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:34:25 Pacific Daylight Time

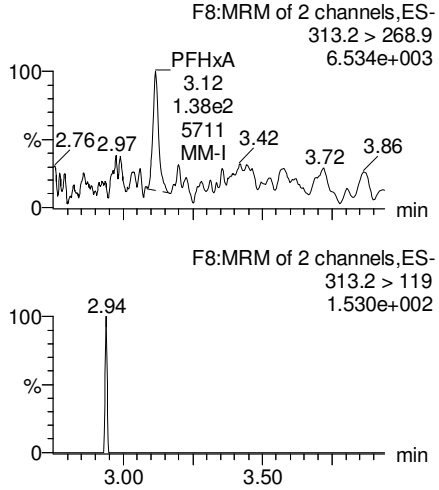
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

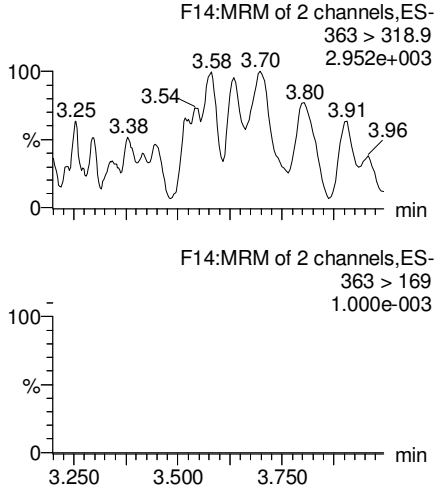
Total PFBS



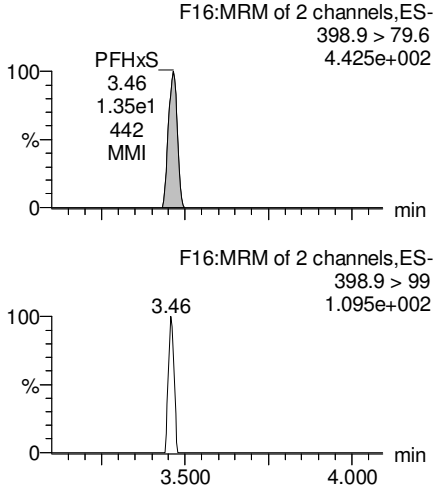
PFHxA



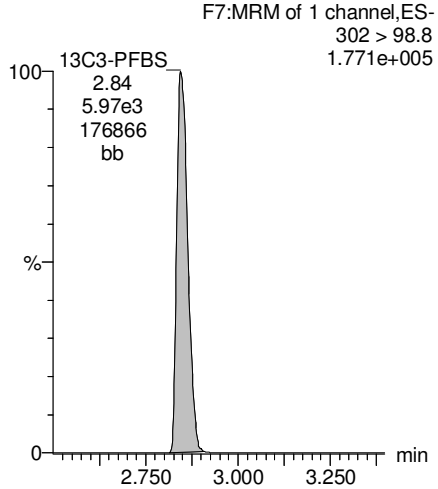
PFHpA



Total PFHxS



13C3-PFBS



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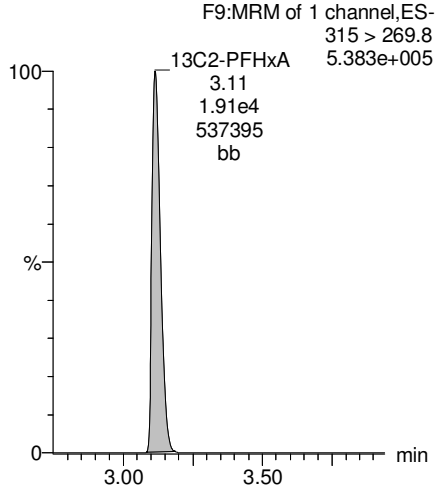

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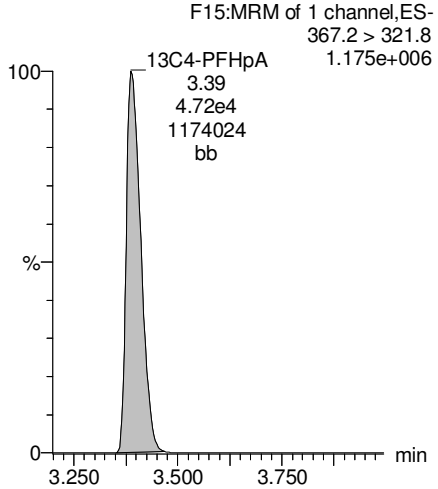

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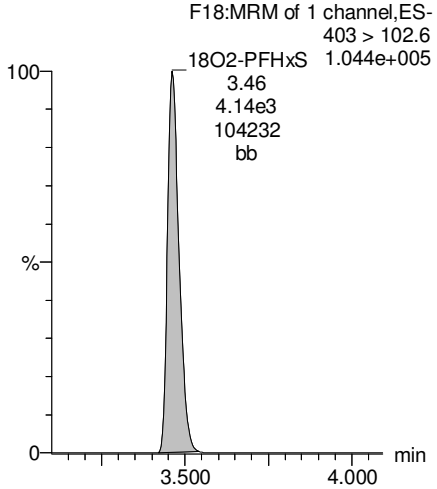


GM 8/23/17

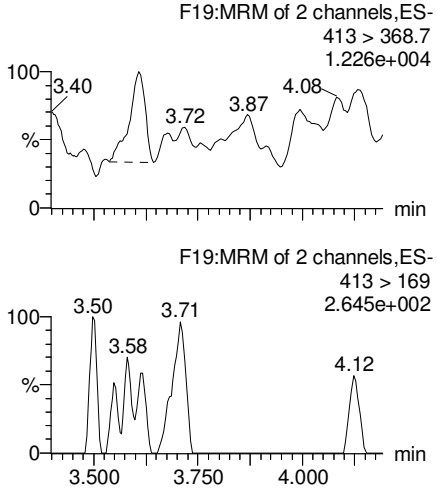
Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:34:25 Pacific Daylight Time

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

Total PFOA



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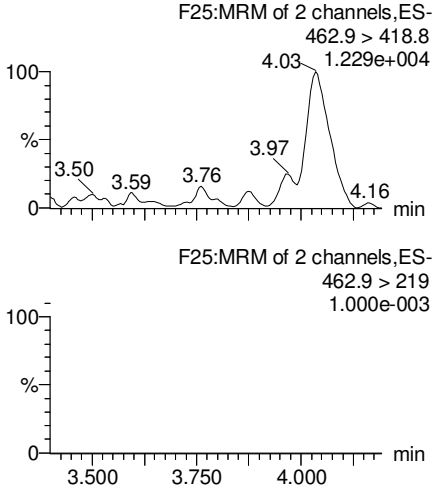

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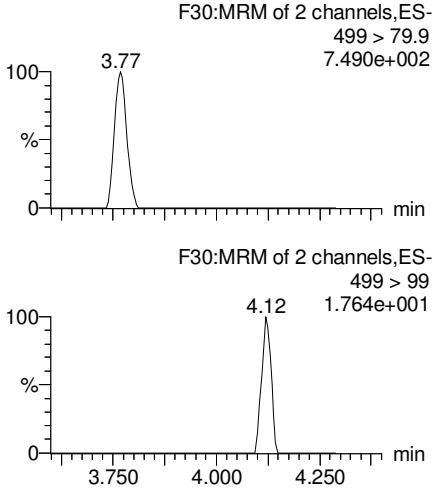

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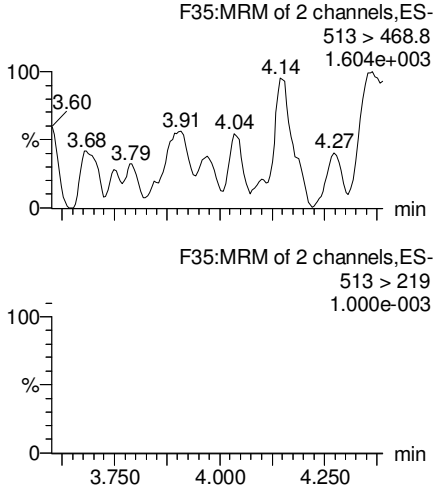

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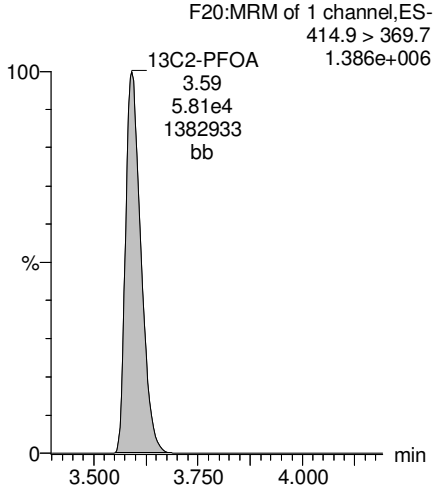

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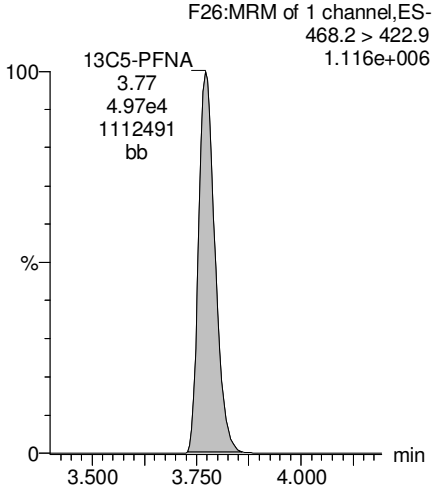

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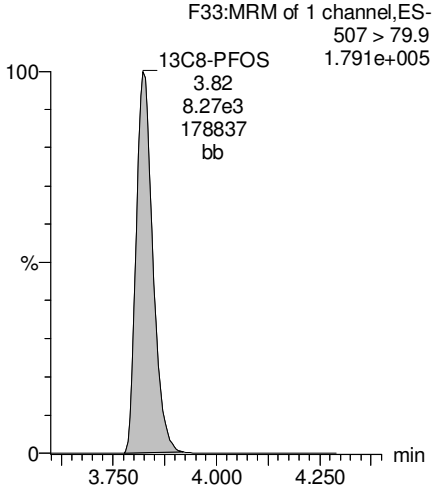

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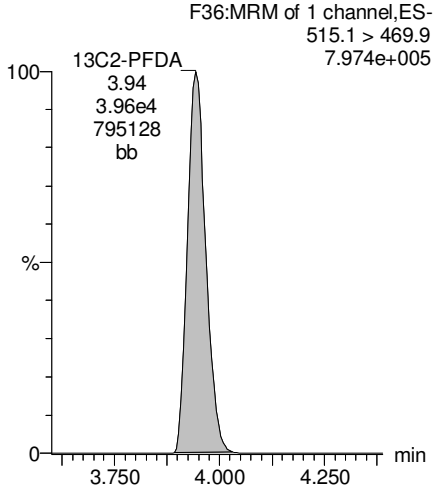


GM 8/23/17

Vista Analytical Laboratory

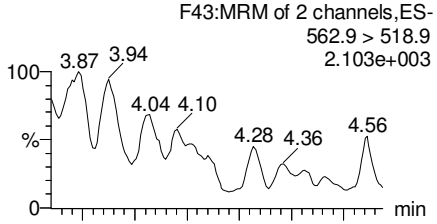
Revd: MM 8/23/17

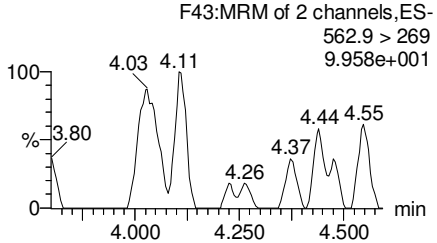
Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:34:25 Pacific Daylight Time

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

PFUnA





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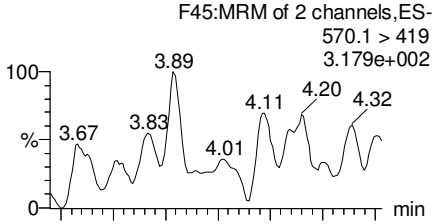

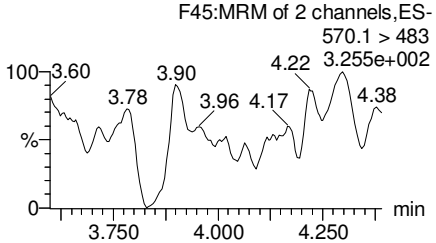

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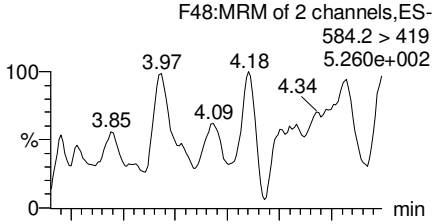

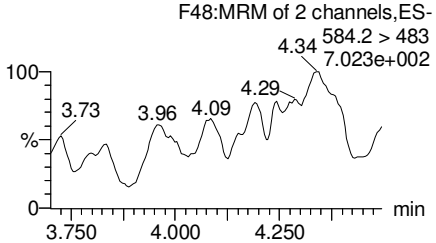

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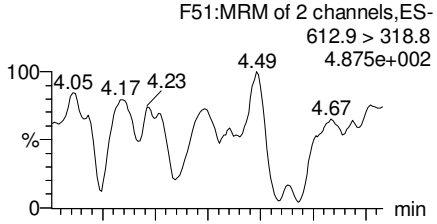

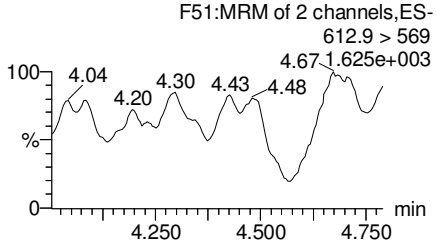

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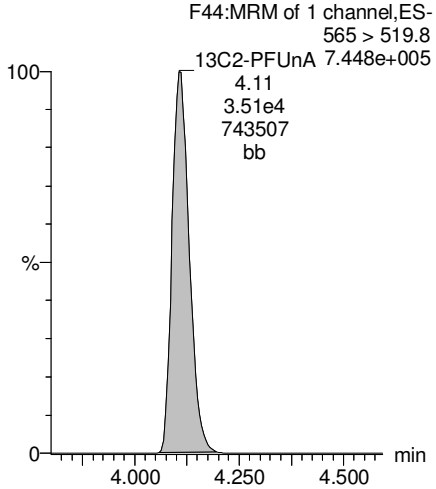
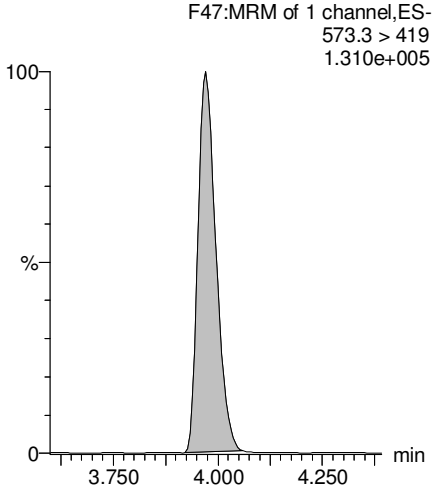


d3-N-MeFOSAA



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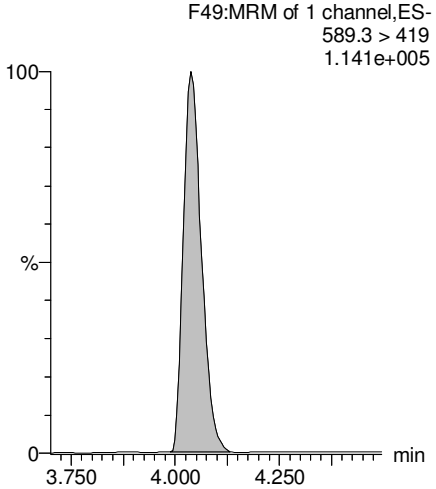

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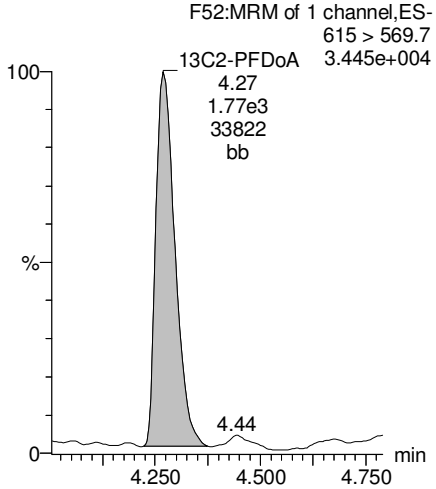

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Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
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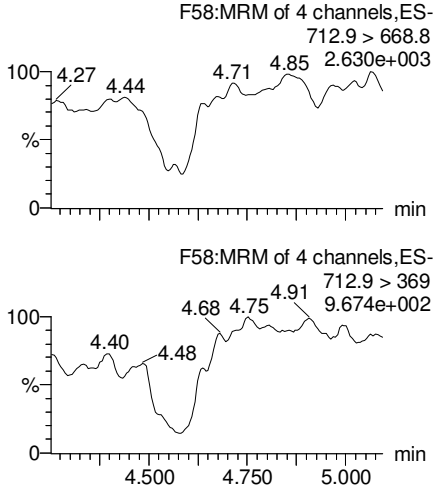
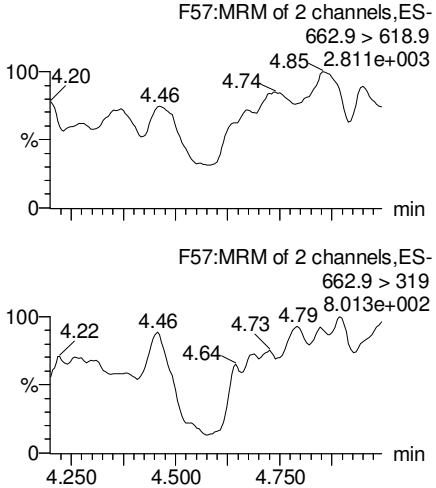
Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

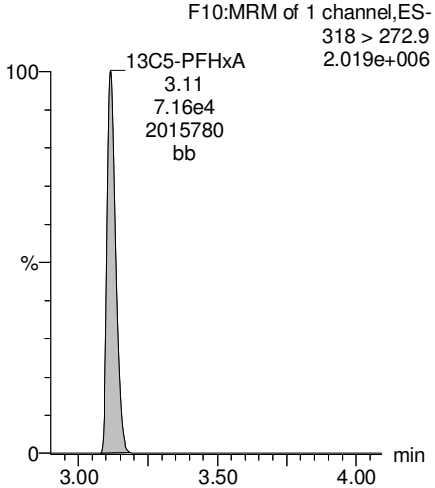
PFTeDA



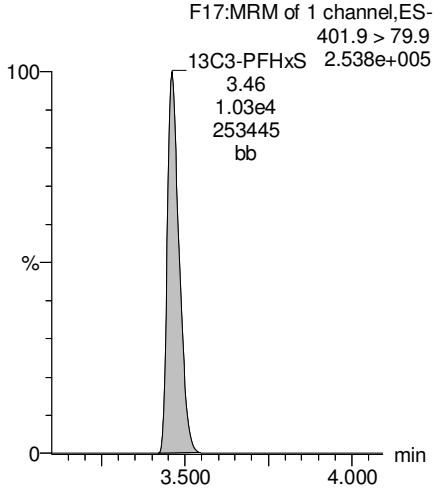
PFTrDA



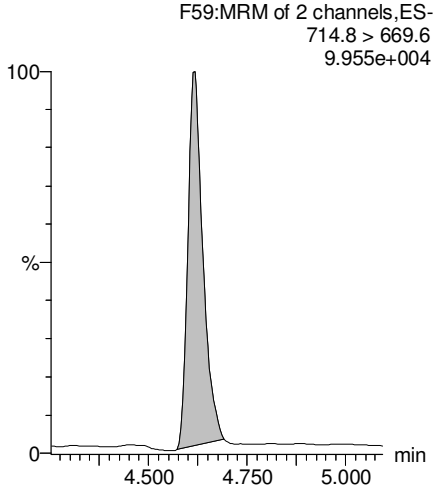
13C5-PFHxA



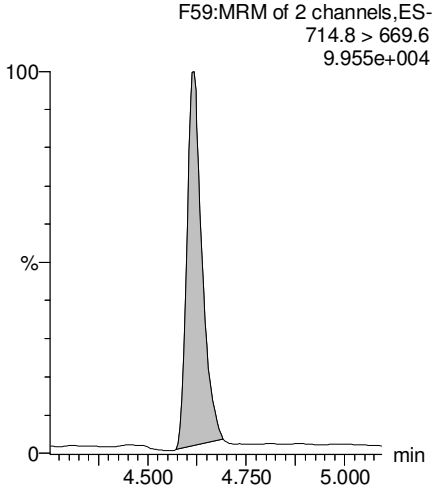
13C3-PFHxS



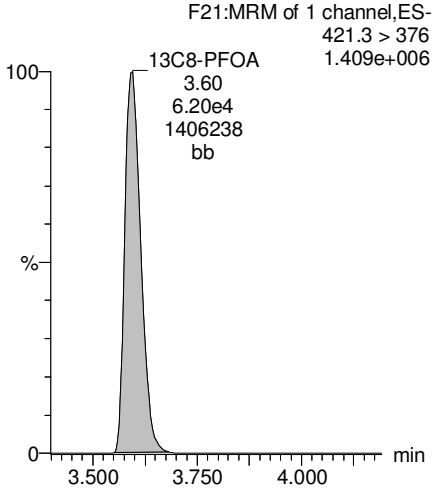
13C2-PFTeDA



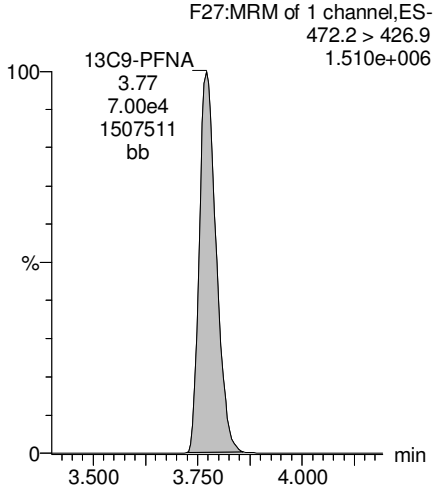
13C2-PFTeDA



13C8-PFOA



13C9-PFNA



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Vista Analytical Laboratory

Revd: MM 8/23/17

Dataset: U:\Q4.PRO\results\170822M1\170822M1-67.qld

Last Altered: Wednesday, August 23, 2017 10:33:12 Pacific Daylight Time
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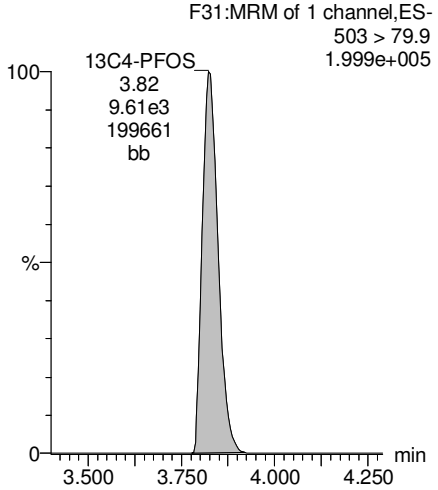
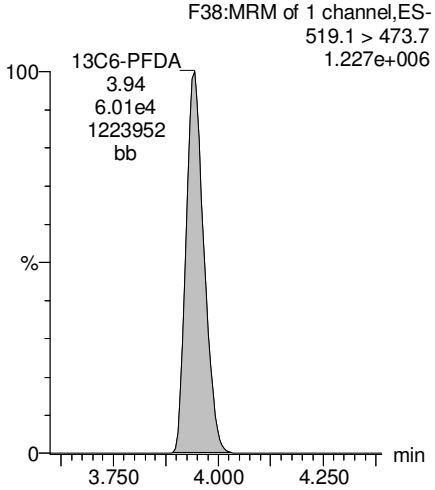
Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

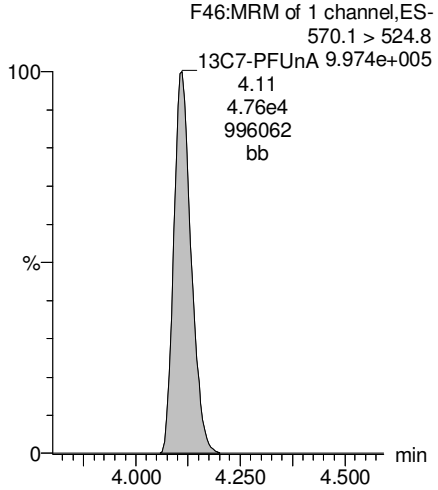
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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INJECTION INTERNAL STANDARD (IIS) AREAS,

INSTRUMENT BLANKS (IB)

AND

CONTINUTING CALIBRATION VERIFICATIONS CCV)

Dataset: U:\Q4.PRO\results\170815M1\IIS AREA.qld

Last Altered: Wednesday, August 16, 2017 15:35:20 Pacific Daylight Time
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Method: U:\Q4.PRO\MethDB\PFAS_RS=only.mdb 11 Aug 2017 12:16:30
Calibration: 16 Aug 2017 15:24:31

Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	4.66e4	100.0	NO
2	2	13C3-PFHxS	ST170...	1.18e4	100.0	NO
3	3	13C8-PFOA	ST170...	5.87e4	100.0	NO
4	4	13C9-PFNA	ST170...	6.58e4	100.0	NO
5	5	13C4-PFOS	ST170...	1.28e4	100.0	NO
6	6	13C6-PFDA	ST170...	5.91e4	100.0	NO
7	7	13C7-PFUnA	ST170...	6.85e4	100.0	NO

Name: 170815M1_3, Date: 15-Aug-2017, Time: 13:23:17, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA	6.70e0	0.0	NO
7	7	13C7-PFUnA	IPA			NO

Name: 170815M1_4, Date: 15-Aug-2017, Time: 13:34:04, ID: B7H0078-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	1.27e4	27.3	YES
2	2	13C3-PFHxS	B7H00...	2.14e3	18.1	YES
3	3	13C8-PFOA	B7H00...	9.78e3	16.6	YES
4	4	13C9-PFNA	B7H00...	1.27e4	19.3	YES
5	5	13C4-PFOS	B7H00...	1.96e3	15.3	YES
6	6	13C6-PFDA	B7H00...	1.09e4	18.5	YES
7	7	13C7-PFUnA	B7H00...	1.05e4	15.3	YES

Name: 170815M1_5, Date: 15-Aug-2017, Time: 13:44:42, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA			NO

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Last Altered: Wednesday, August 16, 2017 15:35:20 Pacific Daylight Time
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Name: 170815M1_6, Date: 15-Aug-2017, Time: 13:59:37, ID: B7H0078-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	1.23e4	26.4	YES
2	2 13C3-PFHxS	B7H00...	1.77e3	15.0	YES
3	3 13C8-PFOA	B7H00...	8.78e3	15.0	YES
4	4 13C9-PFNA	B7H00...	1.06e4	16.1	YES
5	5 13C4-PFOS	B7H00...	1.65e3	12.9	YES
6	6 13C6-PFDA	B7H00...	9.66e3	16.3	YES
7	7 13C7-PFUnA	B7H00...	9.39e3	13.7	YES

Name: 170815M1_7, Date: 15-Aug-2017, Time: 14:10:12, ID: B7H0078-MS1 Matrix Spike 0.125, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	1.26e4	27.0	YES
2	2 13C3-PFHxS	B7H00...	1.86e3	15.7	YES
3	3 13C8-PFOA	B7H00...	9.75e3	16.6	YES
4	4 13C9-PFNA	B7H00...	1.15e4	17.6	YES
5	5 13C4-PFOS	B7H00...	1.76e3	13.7	YES
6	6 13C6-PFDA	B7H00...	1.00e4	16.9	YES
7	7 13C7-PFUnA	B7H00...	9.42e3	13.7	YES

Name: 170815M1_8, Date: 15-Aug-2017, Time: 14:20:50, ID: B7H0078-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	1.22e4	26.2	YES
2	2 13C3-PFHxS	B7H00...	1.79e3	15.2	YES
3	3 13C8-PFOA	B7H00...	9.30e3	15.8	YES
4	4 13C9-PFNA	B7H00...	1.05e4	16.0	YES
5	5 13C4-PFOS	B7H00...	2.12e3	16.5	YES
6	6 13C6-PFDA	B7H00...	1.19e4	20.1	YES
7	7 13C7-PFUnA	B7H00...	1.11e4	16.1	YES

Name: 170815M1_9, Date: 15-Aug-2017, Time: 14:41:59, ID: 1700907-04RE1@20 AT028-MW17-06-071717-1300 0.12053, Description: AT028-MW17-06-071717-1300

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	4.80e2	1029.1	YES
2	2 13C3-PFHxS	17009...	5.43e1	459.1	YES
3	3 13C8-PFOA	17009...	3.53e2	600.9	YES
4	4 13C9-PFNA	17009...	4.36e2	662.9	YES
5	5 13C4-PFOS	17009...	5.09e1	397.6	YES
6	6 13C6-PFDA	17009...	3.39e2	573.1	YES
7	7 13C7-PFUnA	17009...	3.51e2	512.9	YES

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Name: 170815M1_10, Date: 15-Aug-2017, Time: 14:52:38, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA	6.27e0	0.0	NO
7	7	13C7-PFUnA	IPA	2.11e1	0.0	NO

Name: 170815M1_11, Date: 15-Aug-2017, Time: 15:03:16, ID: 1700862-01RE1 WS 252 0.00025, Description: WS 252

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17008...	1.15e4	24.6	YES
2	2	13C3-PFHxS	17008...	1.64e3	13.9	YES
3	3	13C8-PFOA	17008...	9.23e3	15.7	YES
4	4	13C9-PFNA	17008...	9.78e3	14.9	YES
5	5	13C4-PFOS	17008...	1.85e3	14.5	YES
6	6	13C6-PFDA	17008...	1.10e4	18.6	YES
7	7	13C7-PFUnA	17008...	1.09e4	15.9	YES

Name: 170815M1_12, Date: 15-Aug-2017, Time: 15:13:54, ID: 1700907-04RE1 AT028-MW17-06-071717-1300 0.12053, Description: AT028-MW17-06-071717-1300

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	1.03e4	22.1	YES
2	2	13C3-PFHxS	17009...	1.33e3	11.2	YES
3	3	13C8-PFOA	17009...	8.64e3	14.7	YES
4	4	13C9-PFNA	17009...	9.20e3	14.0	YES
5	5	13C4-PFOS	17009...	1.54e3	12.1	YES
6	6	13C6-PFDA	17009...	9.71e3	16.4	YES
7	7	13C7-PFUnA	17009...	1.01e4	14.8	YES

Name: 170815M1_13, Date: 15-Aug-2017, Time: 15:24:33, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	7.97e0	0.0	NO

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Name: 170815M1_14, Date: 15-Aug-2017, Time: 15:35:11, ID: 1701031-01 BANGR-03-GW-TW03-080817 0.125, Description: BANGR-03-GW-TW03-080817

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	1.06e4	22.7	YES
2	2 13C3-PFHxS	17010...	1.22e3	10.3	YES
3	3 13C8-PFOA	17010...	9.19e3	15.7	YES
4	4 13C9-PFNA	17010...	1.11e4	16.8	YES
5	5 13C4-PFOS	17010...	1.65e3	12.9	YES
6	6 13C6-PFDA	17010...	1.22e4	20.6	YES
7	7 13C7-PFUnA	17010...	8.56e3	12.5	YES

Name: 170815M1_15, Date: 15-Aug-2017, Time: 15:45:50, ID: 1701031-02 BANGR-05-GW-TW05-080817 0.125, Description: BANGR-05-GW-TW05-080817

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	1.21e4	26.0	YES
2	2 13C3-PFHxS	17010...	1.90e3	16.0	YES
3	3 13C8-PFOA	17010...	1.07e4	18.2	YES
4	4 13C9-PFNA	17010...	1.08e4	16.5	YES
5	5 13C4-PFOS	17010...	2.03e3	15.8	YES
6	6 13C6-PFDA	17010...	1.11e4	18.8	YES
7	7 13C7-PFUnA	17010...	1.12e4	16.4	YES

Name: 170815M1_16, Date: 15-Aug-2017, Time: 15:56:28, ID: 1701031-03 BANGR-06-GW-TW06-080917 0.125, Description: BANGR-06-GW-TW06-080917

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	1.25e4	26.8	YES
2	2 13C3-PFHxS	17010...	1.87e3	15.8	YES
3	3 13C8-PFOA	17010...	1.01e4	17.2	YES
4	4 13C9-PFNA	17010...	1.20e4	18.2	YES
5	5 13C4-PFOS	17010...	2.02e3	15.8	YES
6	6 13C6-PFDA	17010...	1.02e4	17.3	YES
7	7 13C7-PFUnA	17010...	9.79e3	14.3	YES

Name: 170815M1_17, Date: 15-Aug-2017, Time: 16:07:21, ID: 1701031-04 BANGR-12-GW-TW12-080817 0.125, Description: BANGR-12-GW-TW12-080817

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	9.69e3	20.8	YES
2	2 13C3-PFHxS	17010...	1.29e3	10.9	YES
3	3 13C8-PFOA	17010...	8.56e3	14.6	YES
4	4 13C9-PFNA	17010...	9.60e3	14.6	YES
5	5 13C4-PFOS	17010...	1.12e3	8.7	YES
6	6 13C6-PFDA	17010...	1.07e4	18.1	YES
7	7 13C7-PFUnA	17010...	1.03e4	15.0	YES

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Name: 170815M1_18, Date: 15-Aug-2017, Time: 16:18:34, ID: 1701034-01 SB01-20170808 0.125, Description: SB01-20170808

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	1.05e4	22.6	YES
2	2 13C3-PFHxS	17010...	1.53e3	12.9	YES
3	3 13C8-PFOA	17010...	8.52e3	14.5	YES
4	4 13C9-PFNA	17010...	1.01e4	15.4	YES
5	5 13C4-PFOS	17010...	1.45e3	11.3	YES
6	6 13C6-PFDA	17010...	8.77e3	14.8	YES
7	7 13C7-PFUnA	17010...	1.01e4	14.8	YES

Name: 170815M1_19, Date: 15-Aug-2017, Time: 16:29:12, ID: 1701034-02 Site1-GW-01TW03-20170808 0.125, Description: Site1-GW-01TW03-20170808

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	1.13e4	24.2	YES
2	2 13C3-PFHxS	17010...	1.66e3	14.0	YES
3	3 13C8-PFOA	17010...	9.48e3	16.1	YES
4	4 13C9-PFNA	17010...	1.07e4	16.3	YES
5	5 13C4-PFOS	17010...	1.74e3	13.6	YES
6	6 13C6-PFDA	17010...	1.17e4	19.9	YES
7	7 13C7-PFUnA	17010...	1.26e4	18.5	YES

Name: 170815M1_20, Date: 15-Aug-2017, Time: 16:39:51, ID: 1701034-03 Site1-GW-01TW01-20170808 0.125, Description: Site1-GW-01TW01-20170808

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	1.14e4	24.5	YES
2	2 13C3-PFHxS	17010...	1.83e3	15.5	YES
3	3 13C8-PFOA	17010...	9.64e3	16.4	YES
4	4 13C9-PFNA	17010...	9.96e3	15.2	YES
5	5 13C4-PFOS	17010...	1.84e3	14.4	YES
6	6 13C6-PFDA	17010...	9.65e3	16.3	YES
7	7 13C7-PFUnA	17010...	9.78e3	14.3	YES

Name: 170815M1_21, Date: 15-Aug-2017, Time: 16:50:29, ID: 1701034-04 Site1-GW-FD01-20170808 0.125, Description: Site1-GW-FD01-20170808

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	1.09e4	23.4	YES
2	2 13C3-PFHxS	17010...	1.81e3	15.3	YES
3	3 13C8-PFOA	17010...	8.45e3	14.4	YES
4	4 13C9-PFNA	17010...	1.08e4	16.4	YES
5	5 13C4-PFOS	17010...	1.69e3	13.2	YES
6	6 13C6-PFDA	17010...	9.66e3	16.4	YES
7	7 13C7-PFUnA	17010...	9.99e3	14.6	YES

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Name: 170815M1_22, Date: 15-Aug-2017, Time: 17:01:07, ID: 1701034-05 EB01-20170808 0.125, Description: EB01-20170808

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	1.00e4	21.5	YES
2	2	13C3-PFHxS	17010...	1.62e3	13.7	YES
3	3	13C8-PFOA	17010...	8.05e3	13.7	YES
4	4	13C9-PFNA	17010...	1.01e4	15.4	YES
5	5	13C4-PFOS	17010...	1.61e3	12.6	YES
6	6	13C6-PFDA	17010...	9.70e3	16.4	YES
7	7	13C7-PFUnA	17010...	1.06e4	15.5	YES

Name: 170815M1_23, Date: 15-Aug-2017, Time: 17:18:19, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.36e1	0.0	NO

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	5.29e4	113.6	NO
2	2	13C3-PFHxS	ST170...	1.26e4	106.6	NO
3	3	13C8-PFOA	ST170...	6.51e4	110.7	NO
4	4	13C9-PFNA	ST170...	8.24e4	125.3	NO
5	5	13C4-PFOS	ST170...	1.31e4	102.2	NO
6	6	13C6-PFDA	ST170...	7.54e4	127.6	NO
7	7	13C7-PFUnA	ST170...	7.76e4	113.3	NO

Name: 170815M1_25, Date: 15-Aug-2017, Time: 17:39:44, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA			NO

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Name: 170815M1_26, Date: 15-Aug-2017, Time: 17:50:22, ID: 1701034-06 Site1-GW-01TW02-20170808 0.125, Description: Site1-GW-01TW02-20170808

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	4.60e4	98.7	NO
2	2 13C3-PFHxS	17010...	7.58e3	64.1	NO
3	3 13C8-PFOA	17010...	3.82e4	65.0	NO
4	4 13C9-PFNA	17010...	4.50e4	68.4	NO
5	5 13C4-PFOS	17010...	7.02e3	54.8	NO
6	6 13C6-PFDA	17010...	4.68e4	79.3	NO
7	7 13C7-PFUnA	17010...	4.41e4	64.4	NO

Name: 170815M1_27, Date: 15-Aug-2017, Time: 18:01:00, ID: 1701038-01 OC-PFC-MW04R-0817 0.125, Description: OC-PFC-MW04R-0817

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	4.78e4	102.5	NO
2	2 13C3-PFHxS	17010...	7.87e3	66.5	NO
3	3 13C8-PFOA	17010...	4.13e4	70.3	NO
4	4 13C9-PFNA	17010...	3.87e4	58.8	NO
5	5 13C4-PFOS	17010...	7.77e3	60.7	NO
6	6 13C6-PFDA	17010...	4.38e4	74.2	NO
7	7 13C7-PFUnA	17010...	4.06e4	59.3	NO

Name: 170815M1_28, Date: 15-Aug-2017, Time: 18:11:47, ID: 1701038-02 OC-PFC-EB081017 0.125, Description: OC-PFC-EB081017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	4.90e4	105.1	NO
2	2 13C3-PFHxS	17010...	7.46e3	63.1	NO
3	3 13C8-PFOA	17010...	4.05e4	68.9	NO
4	4 13C9-PFNA	17010...	4.35e4	66.1	NO
5	5 13C4-PFOS	17010...	8.02e3	62.7	NO
6	6 13C6-PFDA	17010...	4.00e4	67.7	NO
7	7 13C7-PFUnA	17010...	4.33e4	63.2	NO

Name: 170815M1_29, Date: 15-Aug-2017, Time: 18:22:33, ID: B7H0035-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.14e4	131.7	NO
2	2 13C3-PFHxS	B7H00...	9.11e3	77.0	NO
3	3 13C8-PFOA	B7H00...	5.12e4	87.2	NO
4	4 13C9-PFNA	B7H00...	5.30e4	80.5	NO
5	5 13C4-PFOS	B7H00...	7.62e3	59.5	NO
6	6 13C6-PFDA	B7H00...	3.88e4	65.7	NO
7	7 13C7-PFUnA	B7H00...	2.05e4	30.0	YES

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Name: 170815M1_30, Date: 15-Aug-2017, Time: 18:33:20, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.35e1	0.0	NO

Name: 170815M1_31, Date: 15-Aug-2017, Time: 18:43:59, ID: B7H0035-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.36e4	136.5	NO
2	2 13C3-PFHxS	B7H00...	9.50e3	80.3	NO
3	3 13C8-PFOA	B7H00...	5.06e4	86.1	NO
4	4 13C9-PFNA	B7H00...	5.81e4	88.3	NO
5	5 13C4-PFOS	B7H00...	8.62e3	67.3	NO
6	6 13C6-PFDA	B7H00...	4.23e4	71.6	NO
7	7 13C7-PFUnA	B7H00...	2.66e4	38.8	YES

Name: 170815M1_32, Date: 15-Aug-2017, Time: 18:54:37, ID: B7H0035-MS1 Matrix Spike 0.11511, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	5.59e4	119.8	NO
2	2 13C3-PFHxS	B7H00...	8.45e3	71.4	NO
3	3 13C8-PFOA	B7H00...	4.70e4	79.9	NO
4	4 13C9-PFNA	B7H00...	5.39e4	82.0	NO
5	5 13C4-PFOS	B7H00...	7.73e3	60.4	NO
6	6 13C6-PFDA	B7H00...	4.57e4	77.4	NO
7	7 13C7-PFUnA	B7H00...	2.89e4	42.2	YES

Name: 170815M1_33, Date: 15-Aug-2017, Time: 19:05:15, ID: B7H0035-MSD1 Matrix Spike Dup 0.11806, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.37e4	136.6	NO
2	2 13C3-PFHxS	B7H00...	9.55e3	80.7	NO
3	3 13C8-PFOA	B7H00...	5.12e4	87.2	NO
4	4 13C9-PFNA	B7H00...	6.15e4	93.5	NO
5	5 13C4-PFOS	B7H00...	8.55e3	66.8	NO
6	6 13C6-PFDA	B7H00...	5.41e4	91.6	NO
7	7 13C7-PFUnA	B7H00...	3.55e4	51.8	NO

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Name: 170815M1_34, Date: 15-Aug-2017, Time: 19:16:10, ID: 1700980-01 IR09MW61A-080217 0.10744, Description: IR09MW61A-080217

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	6.38e4	137.0	NO
2	2 13C3-PFHxS	17009...	9.56e3	80.8	NO
3	3 13C8-PFOA	17009...	5.30e4	90.2	NO
4	4 13C9-PFNA	17009...	5.52e4	84.0	NO
5	5 13C4-PFOS	17009...	8.47e3	66.2	NO
6	6 13C6-PFDA	17009...	5.02e4	84.9	NO
7	7 13C7-PFUnA	17009...	3.69e4	53.8	NO

Name: 170815M1_35, Date: 15-Aug-2017, Time: 19:27:30, ID: 1700980-02 IR09MW62A-080217 0.11271, Description: IR09MW62A-080217

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	6.86e4	147.2	NO
2	2 13C3-PFHxS	17009...	9.56e3	80.8	NO
3	3 13C8-PFOA	17009...	5.43e4	92.4	NO
4	4 13C9-PFNA	17009...	5.98e4	91.0	NO
5	5 13C4-PFOS	17009...	8.66e3	67.6	NO
6	6 13C6-PFDA	17009...	5.18e4	87.7	NO
7	7 13C7-PFUnA	17009...	3.65e4	53.3	NO

Name: 170815M1_36, Date: 15-Aug-2017, Time: 19:38:09, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA	1.14e1	0.0	YES
7	7 13C7-PFUnA	IPA			NO

Name: 170815M1_37, Date: 15-Aug-2017, Time: 19:48:46, ID: 1700980-03 IR09P040A-080217 0.11721, Description: IR09P040A-080217

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	5.54e4	118.8	NO
2	2 13C3-PFHxS	17009...	8.57e3	72.5	NO
3	3 13C8-PFOA	17009...	4.70e4	80.0	NO
4	4 13C9-PFNA	17009...	5.33e4	81.1	NO
5	5 13C4-PFOS	17009...	7.75e3	60.5	NO
6	6 13C6-PFDA	17009...	4.05e4	68.6	NO
7	7 13C7-PFUnA	17009...	2.83e4	41.3	YES

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Name: 170815M1_38, Date: 15-Aug-2017, Time: 19:59:33, ID: 1700980-04 IR10MW28A-080217 0.1175, Description: IR10MW28A-080217

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	6.45e4	138.3	NO
2	2 13C3-PFHxS	17009...	9.99e3	84.4	NO
3	3 13C8-PFOA	17009...	5.38e4	91.6	NO
4	4 13C9-PFNA	17009...	5.84e4	88.8	NO
5	5 13C4-PFOS	17009...	9.60e3	75.0	NO
6	6 13C6-PFDA	17009...	5.56e4	94.2	NO
7	7 13C7-PFUnA	17009...	5.09e4	74.3	NO

Name: 170815M1_39, Date: 15-Aug-2017, Time: 20:10:11, ID: 1700980-05 080217-FB-01 0.12184, Description: 080217-FB-01

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	6.17e4	132.4	NO
2	2 13C3-PFHxS	17009...	9.47e3	80.0	NO
3	3 13C8-PFOA	17009...	5.14e4	87.6	NO
4	4 13C9-PFNA	17009...	5.69e4	86.5	NO
5	5 13C4-PFOS	17009...	8.24e3	64.4	NO
6	6 13C6-PFDA	17009...	5.02e4	85.0	NO
7	7 13C7-PFUnA	17009...	3.43e4	50.1	NO

Name: 170815M1_40, Date: 15-Aug-2017, Time: 20:20:58, ID: 1700980-06 IR10MW13A1-080217 0.12103, Description: IR10MW13A1-080217

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	7.27e4	156.0	YES
2	2 13C3-PFHxS	17009...	1.04e4	88.1	NO
3	3 13C8-PFOA	17009...	5.83e4	99.3	NO
4	4 13C9-PFNA	17009...	5.78e4	87.9	NO
5	5 13C4-PFOS	17009...	9.31e3	72.7	NO
6	6 13C6-PFDA	17009...	4.88e4	82.6	NO
7	7 13C7-PFUnA	17009...	4.21e4	61.4	NO

Name: 170815M1_41, Date: 15-Aug-2017, Time: 20:31:46, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.99e1	0.0	NO

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Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	5.71e4	122.4	NO
2	2	13C3-PFHxS	ST170...	1.32e4	112.0	NO
3	3	13C8-PFOA	ST170...	7.80e4	132.7	NO
4	4	13C9-PFNA	ST170...	8.00e4	121.6	NO
5	5	13C4-PFOS	ST170...	1.33e4	103.6	NO
6	6	13C6-PFDA	ST170...	7.93e4	134.1	NO
7	7	13C7-PFUnA	ST170...	8.60e4	125.5	NO

Name: 170815M1_43, Date: 15-Aug-2017, Time: 20:53:17, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.79e1	0.0	NO

Name: 170815M1_44, Date: 15-Aug-2017, Time: 21:03:56, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	6.43e4	138.0	NO
2	2	13C3-PFHxS	17009...	1.01e4	85.7	NO
3	3	13C8-PFOA	17009...	5.52e4	94.0	NO
4	4	13C9-PFNA	17009...	5.70e4	86.6	NO
5	5	13C4-PFOS	17009...	8.92e3	69.7	NO
6	6	13C6-PFDA	17009...	5.04e4	85.3	NO
7	7	13C7-PFUnA	17009...	3.57e4	52.1	NO

Name: 170815M1_45, Date: 15-Aug-2017, Time: 21:14:34, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	6.61e4	141.8	NO
2	2	13C3-PFHxS	17009...	1.05e4	88.7	NO
3	3	13C8-PFOA	17009...	5.63e4	95.8	NO
4	4	13C9-PFNA	17009...	6.26e4	95.2	NO
5	5	13C4-PFOS	17009...	9.42e3	73.6	NO
6	6	13C6-PFDA	17009...	5.54e4	93.8	NO
7	7	13C7-PFUnA	17009...	4.31e4	62.9	NO

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Name: 170815M1_46, Date: 15-Aug-2017, Time: 21:25:13, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	5.93e4	127.2	NO
2	2 13C3-PFHxS	17009...	9.24e3	78.1	NO
3	3 13C8-PFOA	17009...	4.66e4	79.3	NO
4	4 13C9-PFNA	17009...	4.61e4	70.1	NO
5	5 13C4-PFOS	17009...	7.99e3	62.4	NO
6	6 13C6-PFDA	17009...	4.51e4	76.3	NO
7	7 13C7-PFUnA	17009...	3.65e4	53.2	NO

Name: 170815M1_47, Date: 15-Aug-2017, Time: 21:35:59, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	6.02e4	129.2	NO
2	2 13C3-PFHxS	17009...	9.83e3	83.1	NO
3	3 13C8-PFOA	17009...	4.63e4	78.8	NO
4	4 13C9-PFNA	17009...	5.83e4	88.7	NO
5	5 13C4-PFOS	17009...	8.20e3	64.1	NO
6	6 13C6-PFDA	17009...	5.00e4	84.6	NO
7	7 13C7-PFUnA	17009...	4.10e4	59.8	NO

Name: 170815M1_48, Date: 15-Aug-2017, Time: 21:46:46, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	5.13e0	0.0	YES

Name: 170815M1_49, Date: 15-Aug-2017, Time: 21:57:24, ID: B7H0066-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	5.31e4	114.0	NO
2	2 13C3-PFHxS	B7H00...	9.32e3	78.8	NO
3	3 13C8-PFOA	B7H00...	4.48e4	76.2	NO
4	4 13C9-PFNA	B7H00...	5.15e4	78.3	NO
5	5 13C4-PFOS	B7H00...	1.00e4	78.1	NO
6	6 13C6-PFDA	B7H00...	4.67e4	79.1	NO
7	7 13C7-PFUnA	B7H00...	5.47e4	79.8	NO

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Name: 170815M1_50, Date: 15-Aug-2017, Time: 22:08:03, ID: B7H0069-BS1 OPR 0.25, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.30e4	135.1	NO
2	2 13C3-PFHxS	B7H00...	9.97e3	84.3	NO
3	3 13C8-PFOA	B7H00...	5.13e4	87.3	NO
4	4 13C9-PFNA	B7H00...	5.76e4	87.5	NO
5	5 13C4-PFOS	B7H00...	9.80e3	76.5	NO
6	6 13C6-PFDA	B7H00...	5.67e4	96.0	NO
7	7 13C7-PFUnA	B7H00...	5.74e4	83.8	NO

Name: 170815M1_51, Date: 15-Aug-2017, Time: 22:18:41, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.87e1	0.0	NO

Name: 170815M1_52, Date: 15-Aug-2017, Time: 22:29:27, ID: B7H0066-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	5.95e4	127.5	NO
2	2 13C3-PFHxS	B7H00...	1.03e4	87.4	NO
3	3 13C8-PFOA	B7H00...	4.68e4	79.6	NO
4	4 13C9-PFNA	B7H00...	5.11e4	77.7	NO
5	5 13C4-PFOS	B7H00...	9.82e3	76.7	NO
6	6 13C6-PFDA	B7H00...	5.28e4	89.4	NO
7	7 13C7-PFUnA	B7H00...	4.72e4	68.9	NO

Name: 170815M1_53, Date: 15-Aug-2017, Time: 22:40:06, ID: B7H0069-BLK1 Method Blank 0.25, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	7.26e4	155.7	YES
2	2 13C3-PFHxS	B7H00...	1.10e4	93.3	NO
3	3 13C8-PFOA	B7H00...	6.16e4	104.8	NO
4	4 13C9-PFNA	B7H00...	7.09e4	107.8	NO
5	5 13C4-PFOS	B7H00...	1.11e4	86.6	NO
6	6 13C6-PFDA	B7H00...	5.90e4	99.9	NO
7	7 13C7-PFUnA	B7H00...	5.84e4	85.2	NO

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Name: 170815M1_54, Date: 15-Aug-2017, Time: 22:50:52, ID: B7H0066-MS1 Matrix Spike 0.11555, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.16e4	132.1	NO
2	2 13C3-PFHxS	B7H00...	1.08e4	91.2	NO
3	3 13C8-PFOA	B7H00...	4.83e4	82.2	NO
4	4 13C9-PFNA	B7H00...	5.87e4	89.2	NO
5	5 13C4-PFOS	B7H00...	9.86e3	77.0	NO
6	6 13C6-PFDA	B7H00...	5.52e4	93.4	NO
7	7 13C7-PFUnA	B7H00...	5.81e4	84.8	NO

Name: 170815M1_55, Date: 15-Aug-2017, Time: 23:01:39, ID: B7H0066-MSD1 Matrix Spike Dup 0.11567, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.92e4	148.4	NO
2	2 13C3-PFHxS	B7H00...	1.09e4	91.8	NO
3	3 13C8-PFOA	B7H00...	5.27e4	89.7	NO
4	4 13C9-PFNA	B7H00...	6.12e4	93.0	NO
5	5 13C4-PFOS	B7H00...	1.04e4	81.3	NO
6	6 13C6-PFDA	B7H00...	5.48e4	92.8	NO
7	7 13C7-PFUnA	B7H00...	5.96e4	86.9	NO

Name: 170815M1_56, Date: 15-Aug-2017, Time: 23:12:25, ID: B7H0066-MS2 Matrix Spike 0.11836, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.88e4	147.7	NO
2	2 13C3-PFHxS	B7H00...	1.05e4	88.6	NO
3	3 13C8-PFOA	B7H00...	5.18e4	88.2	NO
4	4 13C9-PFNA	B7H00...	5.88e4	89.3	NO
5	5 13C4-PFOS	B7H00...	1.15e4	90.1	NO
6	6 13C6-PFDA	B7H00...	5.44e4	92.0	NO
7	7 13C7-PFUnA	B7H00...	6.06e4	88.5	NO

Name: 170815M1_57, Date: 15-Aug-2017, Time: 23:23:12, ID: B7H0066-MSD2 Matrix Spike Dup 0.11729, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.17e4	132.3	NO
2	2 13C3-PFHxS	B7H00...	1.02e4	86.0	NO
3	3 13C8-PFOA	B7H00...	4.82e4	82.0	NO
4	4 13C9-PFNA	B7H00...	6.21e4	94.4	NO
5	5 13C4-PFOS	B7H00...	1.05e4	81.9	NO
6	6 13C6-PFDA	B7H00...	5.02e4	84.9	NO
7	7 13C7-PFUnA	B7H00...	5.50e4	80.3	NO

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Name: 170815M1_58, Date: 15-Aug-2017, Time: 23:33:50, ID: B7H0069-MS1 Matrix Spike 0.1193, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	7.27e4	156.0	YES
2	2 13C3-PFHxS	B7H00...	1.21e4	101.9	NO
3	3 13C8-PFOA	B7H00...	5.31e4	90.3	NO
4	4 13C9-PFNA	B7H00...	6.41e4	97.4	NO
5	5 13C4-PFOS	B7H00...	1.15e4	89.6	NO
6	6 13C6-PFDA	B7H00...	6.06e4	102.6	NO
7	7 13C7-PFUnA	B7H00...	5.78e4	84.4	NO

Name: 170815M1_59, Date: 15-Aug-2017, Time: 23:44:36, ID: B7H0069-MSD1 Matrix Spike Dup 0.11433, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	6.22e4	133.5	NO
2	2 13C3-PFHxS	B7H00...	1.06e4	89.7	NO
3	3 13C8-PFOA	B7H00...	5.36e4	91.2	NO
4	4 13C9-PFNA	B7H00...	5.52e4	83.9	NO
5	5 13C4-PFOS	B7H00...	1.02e4	80.0	NO
6	6 13C6-PFDA	B7H00...	4.26e4	72.2	NO
7	7 13C7-PFUnA	B7H00...	5.29e4	77.2	NO

Name: 170815M1_60, Date: 15-Aug-2017, Time: 23:55:15, ID: 1701011-01 06302140000900_2017 0.11617, Description: 06302140000900_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.69e4	122.1	NO
2	2 13C3-PFHxS	17010...	9.26e3	78.2	NO
3	3 13C8-PFOA	17010...	5.08e4	86.5	NO
4	4 13C9-PFNA	17010...	5.30e4	80.6	NO
5	5 13C4-PFOS	17010...	9.35e3	73.0	NO
6	6 13C6-PFDA	17010...	4.30e4	72.8	NO
7	7 13C7-PFUnA	17010...	4.69e4	68.4	NO

Name: 170815M1_61, Date: 16-Aug-2017, Time: 00:06:08, ID: 1701011-02 06302140002050_2017 0.11859, Description: 06302140002050_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.25e4	134.2	NO
2	2 13C3-PFHxS	17010...	1.05e4	88.5	NO
3	3 13C8-PFOA	17010...	4.85e4	82.6	NO
4	4 13C9-PFNA	17010...	5.41e4	82.3	NO
5	5 13C4-PFOS	17010...	1.01e4	78.8	NO
6	6 13C6-PFDA	17010...	5.21e4	88.1	NO
7	7 13C7-PFUnA	17010...	5.27e4	76.9	NO

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Name: 170815M1_62, Date: 16-Aug-2017, Time: 00:16:58, ID: 1701011-03 06302140002100_2017 0.11904, Description: 06302140002100_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.59e4	119.9	NO
2	2 13C3-PFHxS	17010...	9.64e3	81.5	NO
3	3 13C8-PFOA	17010...	4.42e4	75.3	NO
4	4 13C9-PFNA	17010...	5.41e4	82.3	NO
5	5 13C4-PFOS	17010...	9.56e3	74.7	NO
6	6 13C6-PFDA	17010...	4.92e4	83.2	NO
7	7 13C7-PFUnA	17010...	4.42e4	64.5	NO

Name: 170815M1_63, Date: 16-Aug-2017, Time: 00:28:17, ID: 1701011-04 06302810002200_2017 0.11477, Description: 06302810002200_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.00e4	128.6	NO
2	2 13C3-PFHxS	17010...	9.98e3	84.3	NO
3	3 13C8-PFOA	17010...	4.74e4	80.7	NO
4	4 13C9-PFNA	17010...	5.57e4	84.8	NO
5	5 13C4-PFOS	17010...	9.44e3	73.7	NO
6	6 13C6-PFDA	17010...	4.91e4	83.1	NO
7	7 13C7-PFUnA	17010...	5.75e4	84.0	NO

Name: 170815M1_64, Date: 16-Aug-2017, Time: 00:39:05, ID: 1701011-05 064W5000002700_2017 0.11543, Description: 064W5000002700_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.96e4	149.3	NO
2	2 13C3-PFHxS	17010...	1.17e4	98.9	NO
3	3 13C8-PFOA	17010...	6.05e4	102.9	NO
4	4 13C9-PFNA	17010...	6.73e4	102.3	NO
5	5 13C4-PFOS	17010...	1.15e4	90.1	NO
6	6 13C6-PFDA	17010...	5.90e4	99.8	NO
7	7 13C7-PFUnA	17010...	5.80e4	84.7	NO

Name: 170815M1_65, Date: 16-Aug-2017, Time: 00:49:59, ID: 1701011-06 FD-01 0.12004, Description: FD-01

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.30e4	135.1	NO
2	2 13C3-PFHxS	17010...	1.05e4	89.0	NO
3	3 13C8-PFOA	17010...	5.05e4	86.0	NO
4	4 13C9-PFNA	17010...	6.01e4	91.4	NO
5	5 13C4-PFOS	17010...	1.03e4	80.2	NO
6	6 13C6-PFDA	17010...	4.98e4	84.3	NO
7	7 13C7-PFUnA	17010...	4.71e4	68.8	NO

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Name: 170815M1_66, Date: 16-Aug-2017, Time: 01:00:43, ID: 1701011-07 FD-02 0.11727, Description: FD-02

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.11e4	131.2	NO
2	2 13C3-PFHxS	17010...	9.58e3	81.0	NO
3	3 13C8-PFOA	17010...	4.89e4	83.3	NO
4	4 13C9-PFNA	17010...	5.45e4	82.9	NO
5	5 13C4-PFOS	17010...	9.58e3	74.8	NO
6	6 13C6-PFDA	17010...	5.02e4	85.0	NO
7	7 13C7-PFUnA	17010...	5.17e4	75.5	NO

Name: 170815M1_67, Date: 16-Aug-2017, Time: 01:11:21, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA	5.78e0	0.0	NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	2.34e1	0.0	NO

Name: 170815M1_68, Date: 16-Aug-2017, Time: 01:21:59, ID: ST170815M1-4 PFC CS0 17H1504, Description: PFC CS0 17H1504

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170...	3.84e4	82.5	NO
2	2 13C3-PFHxS	ST170...	7.09e3	60.0	NO
3	3 13C8-PFOA	ST170...	5.72e4	97.4	NO
4	4 13C9-PFNA	ST170...	6.38e4	96.9	NO
5	5 13C4-PFOS	ST170...	1.11e4	87.0	NO
6	6 13C6-PFDA	ST170...	5.67e4	95.9	NO
7	7 13C7-PFUnA	ST170...	6.53e4	95.3	NO

Name: 170815M1_69, Date: 16-Aug-2017, Time: 01:32:46, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA	5.50e0	0.0	NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.33e1	0.0	NO

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Name: 170815M1_70, Date: 16-Aug-2017, Time: 01:43:25, ID: 1701011-08 06302130001200_2017 0.12215, Description: 06302130001200_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.43e4	138.0	NO
2	2 13C3-PFHxS	17010...	1.03e4	86.8	NO
3	3 13C8-PFOA	17010...	5.38e4	91.5	NO
4	4 13C9-PFNA	17010...	5.97e4	90.8	NO
5	5 13C4-PFOS	17010...	1.06e4	83.2	NO
6	6 13C6-PFDA	17010...	5.08e4	86.0	NO
7	7 13C7-PFUnA	17010...	6.09e4	88.9	NO

Name: 170815M1_71, Date: 16-Aug-2017, Time: 01:54:11, ID: 1701011-09 06302130001400A_2017 0.12023, Description: 06302130001400A_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.90e4	126.5	NO
2	2 13C3-PFHxS	17010...	9.52e3	80.5	NO
3	3 13C8-PFOA	17010...	4.96e4	84.5	NO
4	4 13C9-PFNA	17010...	5.03e4	76.4	NO
5	5 13C4-PFOS	17010...	9.93e3	77.6	NO
6	6 13C6-PFDA	17010...	4.79e4	81.1	NO
7	7 13C7-PFUnA	17010...	5.68e4	82.9	NO

Name: 170815M1_72, Date: 16-Aug-2017, Time: 02:04:49, ID: 1701011-10 06302810001500_B_2017 0.11695, Description: 06302810001500_B_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.66e4	142.8	NO
2	2 13C3-PFHxS	17010...	1.02e4	85.9	NO
3	3 13C8-PFOA	17010...	5.39e4	91.8	NO
4	4 13C9-PFNA	17010...	6.19e4	94.1	NO
5	5 13C4-PFOS	17010...	1.05e4	82.1	NO
6	6 13C6-PFDA	17010...	5.40e4	91.4	NO
7	7 13C7-PFUnA	17010...	5.79e4	84.5	NO

Name: 170815M1_73, Date: 16-Aug-2017, Time: 02:15:36, ID: 1701011-11 6302840007000_2017 0.11166, Description: 6302840007000_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.58e4	141.2	NO
2	2 13C3-PFHxS	17010...	1.08e4	91.1	NO
3	3 13C8-PFOA	17010...	5.84e4	99.5	NO
4	4 13C9-PFNA	17010...	5.73e4	87.1	NO
5	5 13C4-PFOS	17010...	1.02e4	79.7	NO
6	6 13C6-PFDA	17010...	5.25e4	88.8	NO
7	7 13C7-PFUnA	17010...	5.59e4	81.7	NO

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Name: 170815M1_74, Date: 16-Aug-2017, Time: 02:26:20, ID: 1701011-12 FD-03 0.11337, Description: FD-03

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.43e4	116.6	NO
2	2 13C3-PFHxS	17010...	9.22e3	77.9	NO
3	3 13C8-PFOA	17010...	4.52e4	77.0	NO
4	4 13C9-PFNA	17010...	5.01e4	76.2	NO
5	5 13C4-PFOS	17010...	9.47e3	74.0	NO
6	6 13C6-PFDA	17010...	4.35e4	73.7	NO
7	7 13C7-PFUnA	17010...	4.58e4	66.9	NO

Name: 170815M1_75, Date: 16-Aug-2017, Time: 02:37:18, ID: 1701011-13 FD-04 0.12051, Description: FD-04

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.29e4	134.9	NO
2	2 13C3-PFHxS	17010...	1.01e4	85.1	NO
3	3 13C8-PFOA	17010...	5.15e4	87.7	NO
4	4 13C9-PFNA	17010...	5.86e4	89.0	NO
5	5 13C4-PFOS	17010...	1.02e4	79.4	NO
6	6 13C6-PFDA	17010...	5.17e4	87.5	NO
7	7 13C7-PFUnA	17010...	5.58e4	81.5	NO

Name: 170815M1_76, Date: 16-Aug-2017, Time: 02:48:10, ID: 1701011-14 FD-05 0.11946, Description: FD-05

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.41e4	137.6	NO
2	2 13C3-PFHxS	17010...	1.09e4	91.9	NO
3	3 13C8-PFOA	17010...	5.33e4	90.8	NO
4	4 13C9-PFNA	17010...	6.13e4	93.2	NO
5	5 13C4-PFOS	17010...	1.01e4	78.8	NO
6	6 13C6-PFDA	17010...	6.21e4	105.2	NO
7	7 13C7-PFUnA	17010...	5.84e4	85.2	NO

Name: 170815M1_77, Date: 16-Aug-2017, Time: 02:58:57, ID: 1701011-15 06302720002300_2017 0.11523, Description: 06302720002300_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.08e4	130.5	NO
2	2 13C3-PFHxS	17010...	9.78e3	82.6	NO
3	3 13C8-PFOA	17010...	4.32e4	73.6	NO
4	4 13C9-PFNA	17010...	5.14e4	78.2	NO
5	5 13C4-PFOS	17010...	8.33e3	65.0	NO
6	6 13C6-PFDA	17010...	4.67e4	79.1	NO
7	7 13C7-PFUnA	17010...	5.69e4	83.0	NO

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Name: 170815M1_78, Date: 16-Aug-2017, Time: 03:09:35, ID: 1701011-16 06302720002500_2017-C 0.10939, Description: 06302720002500_2017-C

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.25e4	134.0	NO
2	2 13C3-PFHxS	17010...	9.78e3	82.6	NO
3	3 13C8-PFOA	17010...	5.06e4	86.1	NO
4	4 13C9-PFNA	17010...	6.17e4	93.9	NO
5	5 13C4-PFOS	17010...	9.66e3	75.5	NO
6	6 13C6-PFDA	17010...	5.20e4	88.0	NO
7	7 13C7-PFUnA	17010...	5.27e4	77.0	NO

Name: 170815M1_79, Date: 16-Aug-2017, Time: 03:20:22, ID: 1701011-17 06302720002800_2017 0.11111, Description: 06302720002800_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.12e4	131.3	NO
2	2 13C3-PFHxS	17010...	9.71e3	82.0	NO
3	3 13C8-PFOA	17010...	5.01e4	85.2	NO
4	4 13C9-PFNA	17010...	5.62e4	85.4	NO
5	5 13C4-PFOS	17010...	9.37e3	73.2	NO
6	6 13C6-PFDA	17010...	5.34e4	90.3	NO
7	7 13C7-PFUnA	17010...	6.17e4	90.1	NO

Name: 170815M1_80, Date: 16-Aug-2017, Time: 03:31:00, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA	5.60e0	0.0	NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.53e1	0.0	NO

Name: 170815M1_81, Date: 16-Aug-2017, Time: 03:41:47, ID: ST170815M1-5 PFC CS3 17H1505, Description: PFC CS3 17H1505

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170...	3.85e4	82.6	NO
2	2 13C3-PFHxS	ST170...	6.93e3	58.6	NO
3	3 13C8-PFOA	ST170...	5.70e4	97.0	NO
4	4 13C9-PFNA	ST170...	6.92e4	105.2	NO
5	5 13C4-PFOS	ST170...	1.08e4	84.1	NO
6	6 13C6-PFDA	ST170...	5.97e4	101.1	NO
7	7 13C7-PFUnA	ST170...	6.92e4	101.0	NO

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Name: 170815M1_82, Date: 16-Aug-2017, Time: 03:52:25, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170815M1_83, Date: 16-Aug-2017, Time: 04:03:03, ID: 1701011-18 06302810001500_A_2017 0.11512, Description: 06302810001500_A_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	4.81e4	103.1	NO
2	2 13C3-PFHxS	17010...	8.06e3	68.1	NO
3	3 13C8-PFOA	17010...	4.07e4	69.3	NO
4	4 13C9-PFNA	17010...	4.54e4	69.0	NO
5	5 13C4-PFOS	17010...	8.35e3	65.2	NO
6	6 13C6-PFDA	17010...	3.90e4	66.0	NO
7	7 13C7-PFUnA	17010...	3.58e4	52.3	NO

Name: 170815M1_84, Date: 16-Aug-2017, Time: 04:13:50, ID: 1701011-19 Tr-Prk-Pub-Well-1_2017 0.11801, Description: Tr-Prk-Pub-Well-1_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.28e4	134.6	NO
2	2 13C3-PFHxS	17010...	1.08e4	91.2	NO
3	3 13C8-PFOA	17010...	5.04e4	85.7	NO
4	4 13C9-PFNA	17010...	5.76e4	87.6	NO
5	5 13C4-PFOS	17010...	9.92e3	77.5	NO
6	6 13C6-PFDA	17010...	5.51e4	93.3	NO
7	7 13C7-PFUnA	17010...	5.64e4	82.3	NO

Name: 170815M1_85, Date: 16-Aug-2017, Time: 04:24:28, ID: 1701011-20 Tr-Prk-Pub-Well-2_2017 0.11847, Description: Tr-Prk-Pub-Well-2_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.65e4	121.2	NO
2	2 13C3-PFHxS	17010...	9.35e3	79.0	NO
3	3 13C8-PFOA	17010...	4.53e4	77.2	NO
4	4 13C9-PFNA	17010...	5.50e4	83.7	NO
5	5 13C4-PFOS	17010...	9.26e3	72.3	NO
6	6 13C6-PFDA	17010...	4.12e4	69.8	NO
7	7 13C7-PFUnA	17010...	4.76e4	69.5	NO

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Name: 170815M1_86, Date: 16-Aug-2017, Time: 04:35:15, ID: 1701013-01 06302720002600_2017 0.11643, Description: 06302720002600_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.86e4	147.2	NO
2	2 13C3-PFHxS	17010...	1.10e4	93.2	NO
3	3 13C8-PFOA	17010...	5.50e4	93.6	NO
4	4 13C9-PFNA	17010...	5.91e4	89.9	NO
5	5 13C4-PFOS	17010...	1.07e4	83.4	NO
6	6 13C6-PFDA	17010...	5.79e4	98.1	NO
7	7 13C7-PFUnA	17010...	6.04e4	88.1	NO

Name: 170815M1_87, Date: 16-Aug-2017, Time: 04:46:03, ID: 1701013-02 06302720002900_2017 0.11676, Description: 06302720002900_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.42e4	137.7	NO
2	2 13C3-PFHxS	17010...	1.05e4	88.6	NO
3	3 13C8-PFOA	17010...	5.26e4	89.5	NO
4	4 13C9-PFNA	17010...	5.72e4	87.0	NO
5	5 13C4-PFOS	17010...	9.96e3	77.8	NO
6	6 13C6-PFDA	17010...	5.82e4	98.5	NO
7	7 13C7-PFUnA	17010...	5.64e4	82.4	NO

Name: 170815M1_88, Date: 16-Aug-2017, Time: 04:57:07, ID: 1701013-03 06302810000600_2017 0.12244, Description: 06302810000600_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.03e4	129.4	NO
2	2 13C3-PFHxS	17010...	1.01e4	85.5	NO
3	3 13C8-PFOA	17010...	5.07e4	86.4	NO
4	4 13C9-PFNA	17010...	5.59e4	85.0	NO
5	5 13C4-PFOS	17010...	9.58e3	74.9	NO
6	6 13C6-PFDA	17010...	4.95e4	83.8	NO
7	7 13C7-PFUnA	17010...	5.65e4	82.5	NO

Name: 170815M1_89, Date: 16-Aug-2017, Time: 05:07:45, ID: 1701013-04 064A3000000100_2017 0.1166, Description: 064A3000000100_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	4.69e4	100.6	NO
2	2 13C3-PFHxS	17010...	9.72e3	82.2	NO
3	3 13C8-PFOA	17010...	5.00e4	85.1	NO
4	4 13C9-PFNA	17010...	5.75e4	87.4	NO
5	5 13C4-PFOS	17010...	9.96e3	77.8	NO
6	6 13C6-PFDA	17010...	5.21e4	88.2	NO
7	7 13C7-PFUnA	17010...	5.74e4	83.8	NO

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Name: 170815M1_90, Date: 16-Aug-2017, Time: 05:18:32, ID: 1701013-05 064A3500005900_2017 0.12037, Description: 064A3500005900_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.47e4	138.7	NO
2	2 13C3-PFHxS	17010...	1.11e4	93.6	NO
3	3 13C8-PFOA	17010...	5.02e4	85.4	NO
4	4 13C9-PFNA	17010...	5.15e4	78.3	NO
5	5 13C4-PFOS	17010...	9.96e3	77.8	NO
6	6 13C6-PFDA	17010...	5.44e4	92.1	NO
7	7 13C7-PFUnA	17010...	5.66e4	82.6	NO

Name: 170815M1_91, Date: 16-Aug-2017, Time: 05:29:10, ID: 1701013-06 5673_F41_2017 0.12174, Description: 5673_F41_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	6.63e4	142.2	NO
2	2 13C3-PFHxS	17010...	1.06e4	89.6	NO
3	3 13C8-PFOA	17010...	5.14e4	87.4	NO
4	4 13C9-PFNA	17010...	5.84e4	88.8	NO
5	5 13C4-PFOS	17010...	1.05e4	81.7	NO
6	6 13C6-PFDA	17010...	5.38e4	91.0	NO
7	7 13C7-PFUnA	17010...	6.81e4	99.4	NO

Name: 170815M1_92, Date: 16-Aug-2017, Time: 05:39:49, ID: 1701013-07 06302140002250_2017 0.12148, Description: 06302140002250_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.98e4	128.4	NO
2	2 13C3-PFHxS	17010...	1.02e4	86.5	NO
3	3 13C8-PFOA	17010...	4.91e4	83.6	NO
4	4 13C9-PFNA	17010...	5.28e4	80.3	NO
5	5 13C4-PFOS	17010...	1.01e4	79.1	NO
6	6 13C6-PFDA	17010...	5.72e4	96.8	NO
7	7 13C7-PFUnA	17010...	5.52e4	80.5	NO

Name: 170815M1_93, Date: 16-Aug-2017, Time: 05:50:27, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA	9.24e0	0.0	NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

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Name: 170815M1_94, Date: 16-Aug-2017, Time: 06:01:06, ID: ST170815M1-6 PFC CS3 17H1505, Description: PFC CS3 17H1505

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	3.82e4	81.9	NO
2	2	13C3-PFHxS	ST170...	6.55e3	55.4	NO
3	3	13C8-PFOA	ST170...	5.02e4	85.4	NO
4	4	13C9-PFNA	ST170...	7.61e4	115.8	NO
5	5	13C4-PFOS	ST170...	1.10e4	86.1	NO
6	6	13C6-PFDA	ST170...	6.06e4	102.5	NO
7	7	13C7-PFUnA	ST170...	6.34e4	92.5	NO

Name: 170815M1_95, Date: 16-Aug-2017, Time: 06:11:44, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.32e1	0.0	NO

Name: 170815M1_96, Date: 16-Aug-2017, Time: 06:22:22, ID: 1701013-08 06302810001010_2017 0.1142, Description: 06302810001010_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	6.82e4	146.2	NO
2	2	13C3-PFHxS	17010...	1.02e4	86.6	NO
3	3	13C8-PFOA	17010...	5.50e4	93.6	NO
4	4	13C9-PFNA	17010...	5.71e4	86.9	NO
5	5	13C4-PFOS	17010...	1.02e4	79.8	NO
6	6	13C6-PFDA	17010...	5.33e4	90.1	NO
7	7	13C7-PFUnA	17010...	5.76e4	84.0	NO

Name: 170815M1_97, Date: 16-Aug-2017, Time: 06:33:09, ID: 1701013-09 064P5000001700_2017 0.12061, Description: 064P5000001700_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	5.69e4	122.0	NO
2	2	13C3-PFHxS	17010...	9.29e3	78.5	NO
3	3	13C8-PFOA	17010...	4.43e4	75.4	NO
4	4	13C9-PFNA	17010...	4.87e4	74.0	NO
5	5	13C4-PFOS	17010...	9.10e3	71.1	NO
6	6	13C6-PFDA	17010...	4.59e4	77.7	NO
7	7	13C7-PFUnA	17010...	4.98e4	72.7	NO

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Name: 170815M1_98, Date: 16-Aug-2017, Time: 06:43:47, ID: 1701013-10 064V5000000200_2017 0.11516, Description: 064V5000000200_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.36e4	115.0	NO
2	2 13C3-PFHxS	17010...	8.62e3	72.9	NO
3	3 13C8-PFOA	17010...	4.52e4	76.9	NO
4	4 13C9-PFNA	17010...	4.87e4	74.1	NO
5	5 13C4-PFOS	17010...	9.25e3	72.3	NO
6	6 13C6-PFDA	17010...	4.81e4	81.3	NO
7	7 13C7-PFUnA	17010...	5.61e4	81.9	NO

Name: 170815M1_99, Date: 16-Aug-2017, Time: 06:54:34, ID: 1701013-11 LabDI_2017 0.11964, Description: LabDI_2017

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	5.01e4	107.5	NO
2	2 13C3-PFHxS	17010...	8.37e3	70.8	NO
3	3 13C8-PFOA	17010...	4.27e4	72.7	NO
4	4 13C9-PFNA	17010...	4.65e4	70.7	NO
5	5 13C4-PFOS	17010...	9.10e3	71.1	NO
6	6 13C6-PFDA	17010...	4.39e4	74.4	NO
7	7 13C7-PFUnA	17010...	4.22e4	61.6	NO

Name: 170815M1_100, Date: 16-Aug-2017, Time: 07:05:12, ID: 1701022-01 Lagoon (420-124769-1) 0.24019, Description: Lagoon (420-124769-1)

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	4.69e4	100.7	NO
2	2 13C3-PFHxS	17010...	7.58e3	64.1	NO
3	3 13C8-PFOA	17010...	4.05e4	68.9	NO
4	4 13C9-PFNA	17010...	4.47e4	67.9	NO
5	5 13C4-PFOS	17010...	7.43e3	58.1	NO
6	6 13C6-PFDA	17010...	4.28e4	72.5	NO
7	7 13C7-PFUnA	17010...	4.56e4	66.6	NO

Name: 170815M1_101, Date: 16-Aug-2017, Time: 07:15:50, ID: 1701023-01 SB01-20170807 0.11872, Description: SB01-20170807

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17010...	4.74e4	101.6	NO
2	2 13C3-PFHxS	17010...	8.24e3	69.6	NO
3	3 13C8-PFOA	17010...	3.89e4	66.2	NO
4	4 13C9-PFNA	17010...	4.54e4	69.0	NO
5	5 13C4-PFOS	17010...	7.89e3	61.6	NO
6	6 13C6-PFDA	17010...	4.26e4	72.2	NO
7	7 13C7-PFUnA	17010...	4.39e4	64.1	NO

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Name: 170815M1_102, Date: 16-Aug-2017, Time: 07:26:29, ID: 1701023-02 EB01-20170807 0.11734, Description: EB01-20170807

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	4.17e4	89.4	NO
2	2	13C3-PFHxS	17010...	7.09e3	59.9	NO
3	3	13C8-PFOA	17010...	3.36e4	57.2	NO
4	4	13C9-PFNA	17010...	4.23e4	64.4	NO
5	5	13C4-PFOS	17010...	7.07e3	55.2	NO
6	6	13C6-PFDA	17010...	3.69e4	62.5	NO
7	7	13C7-PFUnA	17010...	4.11e4	60.0	NO

Name: 170815M1_103, Date: 16-Aug-2017, Time: 07:37:17, ID: 1701023-03 OUA1-MW08-20170807 0.1175, Description: OUA1-MW08-20170807

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	4.14e4	88.8	NO
2	2	13C3-PFHxS	17010...	7.80e3	65.9	NO
3	3	13C8-PFOA	17010...	3.79e4	64.5	NO
4	4	13C9-PFNA	17010...	4.05e4	61.6	NO
5	5	13C4-PFOS	17010...	8.20e3	64.0	NO
6	6	13C6-PFDA	17010...	4.54e4	76.7	NO
7	7	13C7-PFUnA	17010...	4.29e4	62.6	NO

Name: 170815M1_104, Date: 16-Aug-2017, Time: 07:47:59, ID: 1701023-04 OUA1-HS03-20170807 0.11075, Description: OUA1-HS03-20170807

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	4.63e4	99.2	NO
2	2	13C3-PFHxS	17010...	7.88e3	66.6	NO
3	3	13C8-PFOA	17010...	4.00e4	68.0	NO
4	4	13C9-PFNA	17010...	4.12e4	62.6	NO
5	5	13C4-PFOS	17010...	8.05e3	62.9	NO
6	6	13C6-PFDA	17010...	4.21e4	71.3	NO
7	7	13C7-PFUnA	17010...	4.22e4	61.6	NO

Name: 170815M1_105, Date: 16-Aug-2017, Time: 07:58:42, ID: 1701023-05 EB02-20170808 0.11203, Description: EB02-20170808

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	4.48e4	96.2	NO
2	2	13C3-PFHxS	17010...	7.64e3	64.6	NO
3	3	13C8-PFOA	17010...	3.85e4	65.6	NO
4	4	13C9-PFNA	17010...	4.15e4	63.1	NO
5	5	13C4-PFOS	17010...	7.44e3	58.1	NO
6	6	13C6-PFDA	17010...	4.19e4	70.9	NO
7	7	13C7-PFUnA	17010...	4.06e4	59.3	NO

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Name: 170815M1_106, Date: 16-Aug-2017, Time: 08:09:21, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.93e1	0.0	NO

Name: 170815M1_107, Date: 16-Aug-2017, Time: 08:19:59, ID: ST170815M1-7 PFC CS3 17H1505, Description: PFC CS3 17H1505

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	3.89e4	83.4	NO
2	2	13C3-PFHxS	ST170...	6.82e3	57.7	NO
3	3	13C8-PFOA	ST170...	5.12e4	87.2	NO
4	4	13C9-PFNA	ST170...	6.34e4	96.4	NO
5	5	13C4-PFOS	ST170...	1.15e4	89.9	NO
6	6	13C6-PFDA	ST170...	5.96e4	100.9	NO
7	7	13C7-PFUnA	ST170...	6.47e4	94.5	NO

Name: 170815M1_108, Date: 16-Aug-2017, Time: 08:30:38, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.84e1	0.0	NO

Name: 170815M1_109, Date: 16-Aug-2017, Time: 08:41:27, ID: B7H0086-BLK1 Method Blank 1, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	1.11e4	23.8	YES
2	2	13C3-PFHxS	B7H00...	2.08e3	17.6	YES
3	3	13C8-PFOA	B7H00...	9.50e3	16.2	YES
4	4	13C9-PFNA	B7H00...	9.46e3	14.4	YES
5	5	13C4-PFOS	B7H00...	2.05e3	16.0	YES
6	6	13C6-PFDA	B7H00...	1.05e4	17.8	YES
7	7	13C7-PFUnA	B7H00...	1.16e4	17.0	YES

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Name: 170815M1_110, Date: 16-Aug-2017, Time: 08:52:10, ID: B7H0086-BS1 OPR 1, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	1.13e4	24.2	YES
2	2	13C3-PFHxS	B7H00...	2.19e3	18.5	YES
3	3	13C8-PFOA	B7H00...	9.78e3	16.6	YES
4	4	13C9-PFNA	B7H00...	1.06e4	16.1	YES
5	5	13C4-PFOS	B7H00...	2.21e3	17.3	YES
6	6	13C6-PFDA	B7H00...	1.05e4	17.7	YES
7	7	13C7-PFUnA	B7H00...	1.13e4	16.5	YES

Name: 170815M1_111, Date: 16-Aug-2017, Time: 09:02:49, ID: B7H0086-BS2 OPR 1, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	9.75e3	20.9	YES
2	2	13C3-PFHxS	B7H00...	1.74e3	14.7	YES
3	3	13C8-PFOA	B7H00...	9.64e3	16.4	YES
4	4	13C9-PFNA	B7H00...	1.04e4	15.8	YES
5	5	13C4-PFOS	B7H00...	1.79e3	14.0	YES
6	6	13C6-PFDA	B7H00...	8.92e3	15.1	YES
7	7	13C7-PFUnA	B7H00...	9.19e3	13.4	YES

Name: 170815M1_112, Date: 16-Aug-2017, Time: 09:13:27, ID: B7H0086-BS3 OPR 1, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	8.24e3	17.7	YES
2	2	13C3-PFHxS	B7H00...	1.60e3	13.5	YES
3	3	13C8-PFOA	B7H00...	6.78e3	11.5	YES
4	4	13C9-PFNA	B7H00...	7.02e3	10.7	YES
5	5	13C4-PFOS	B7H00...	1.40e3	11.0	YES
6	6	13C6-PFDA	B7H00...	8.38e3	14.2	YES
7	7	13C7-PFUnA	B7H00...	7.25e3	10.6	YES

Name: 170815M1_113, Date: 16-Aug-2017, Time: 09:24:05, ID: B7H0086-BS4 OPR 1, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	7.66e3	16.4	YES
2	2	13C3-PFHxS	B7H00...	1.45e3	12.2	YES
3	3	13C8-PFOA	B7H00...	6.69e3	11.4	YES
4	4	13C9-PFNA	B7H00...	7.53e3	11.4	YES
5	5	13C4-PFOS	B7H00...	1.24e3	9.7	YES
6	6	13C6-PFDA	B7H00...	7.71e3	13.0	YES
7	7	13C7-PFUnA	B7H00...	7.01e3	10.2	YES

GM 8/16/17

Dataset: U:\Q4.PRO\results\170815M1\IIS AREA.qld

Last Altered: Wednesday, August 16, 2017 15:35:20 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 15:38:19 Pacific Daylight Time

Name: 170815M1_114, Date: 16-Aug-2017, Time: 09:34:44, ID: B7H0086-BS5 OPR 1, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	8.73e3	18.7	YES
2	2 13C3-PFHxS	B7H00...	1.57e3	13.3	YES
3	3 13C8-PFOA	B7H00...	7.65e3	13.0	YES
4	4 13C9-PFNA	B7H00...	8.53e3	13.0	YES
5	5 13C4-PFOS	B7H00...	1.61e3	12.6	YES
6	6 13C6-PFDA	B7H00...	8.75e3	14.8	YES
7	7 13C7-PFUnA	B7H00...	7.78e3	11.4	YES

Name: 170815M1_115, Date: 16-Aug-2017, Time: 09:45:22, ID: 1700813-01RE1 LOD/LOQ Full List DoD 3Q17 1, Description: LOD/LOQ Full List DoD 3Q17

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17008...	7.40e3	15.9	YES
2	2 13C3-PFHxS	17008...	1.30e3	11.0	YES
3	3 13C8-PFOA	17008...	7.13e3	12.1	YES
4	4 13C9-PFNA	17008...	8.07e3	12.3	YES
5	5 13C4-PFOS	17008...	1.33e3	10.4	YES
6	6 13C6-PFDA	17008...	6.94e3	11.7	YES
7	7 13C7-PFUnA	17008...	6.59e3	9.6	YES

Name: 170815M1_116, Date: 16-Aug-2017, Time: 09:56:01, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	3.31e1	0.0	NO

Name: 170815M1_117, Date: 16-Aug-2017, Time: 10:06:42, ID: ST170815M1-8 PFC CS3 17H1505, Description: PFC CS3 17H1505

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170...	3.84e4	82.3	NO
2	2 13C3-PFHxS	ST170...	6.97e3	58.9	NO
3	3 13C8-PFOA	ST170...	5.13e4	87.3	NO
4	4 13C9-PFNA	ST170...	6.49e4	98.6	NO
5	5 13C4-PFOS	ST170...	1.14e4	89.4	NO
6	6 13C6-PFDA	ST170...	6.44e4	109.0	NO
7	7 13C7-PFUnA	ST170...	6.11e4	89.3	NO

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Vista Analytical Laboratory

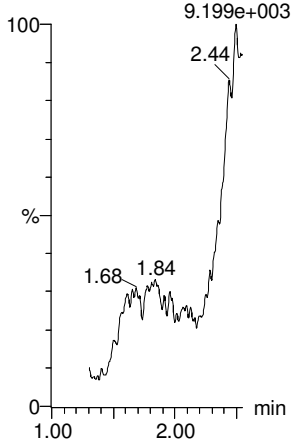
Dataset: U:\Q4.PRO\results\170815M1\170815M1-3.qld

Last Altered: Wednesday, August 16, 2017 09:46:48 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:47:01 Pacific Daylight Time

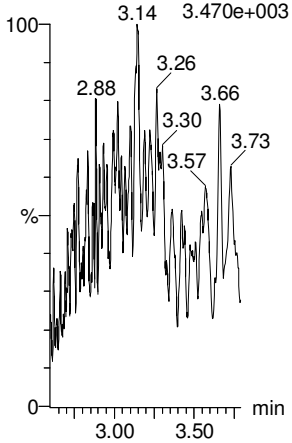
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_3, Date: 15-Aug-2017, Time: 13:23:17, ID: IPA, Description: IPA

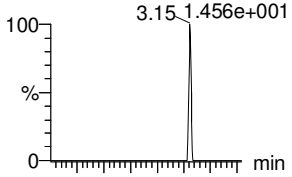
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
9.199e+003



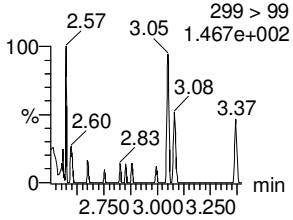
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
3.470e+003



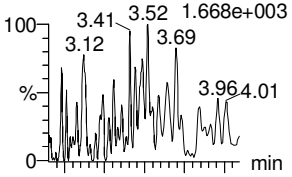
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
1.456e+001



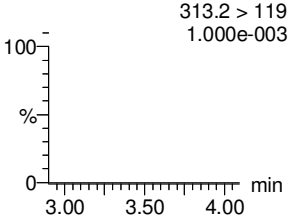
F6:MRM of 2 channels,ES-
299 > 99
1.467e+002



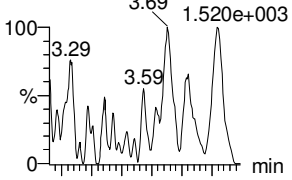
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
1.668e+003



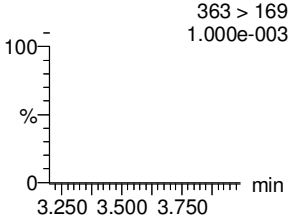
F8:MRM of 2 channels,ES-
313.2 > 119
1.000e-003



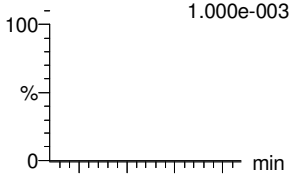
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
1.520e+003



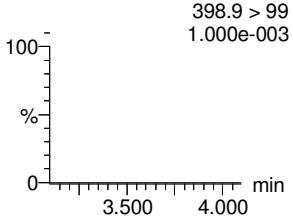
F14:MRM of 2 channels,ES-
363 > 169
1.000e-003



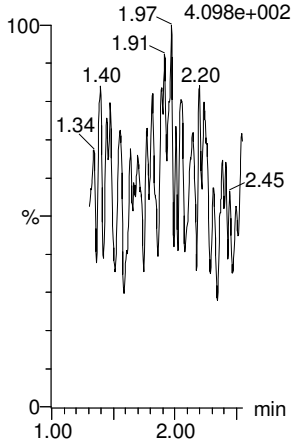
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
1.000e-003



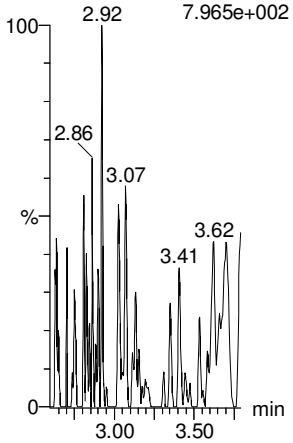
F16:MRM of 2 channels,ES-
398.9 > 99
1.000e-003



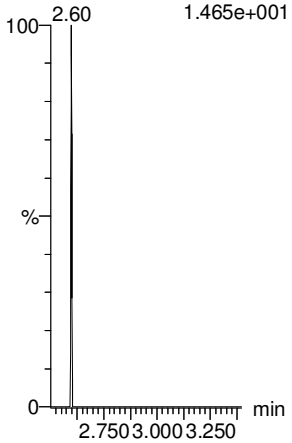
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
4.098e+002



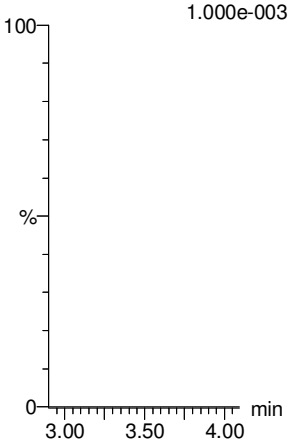
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
7.965e+002



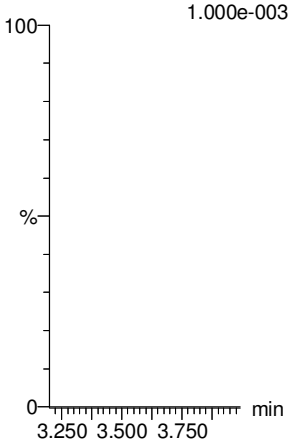
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
1.465e+001



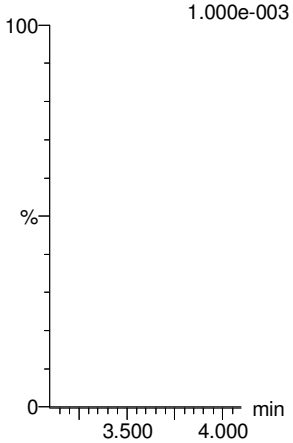
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
1.000e-003



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
1.000e-003



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
1.000e-003



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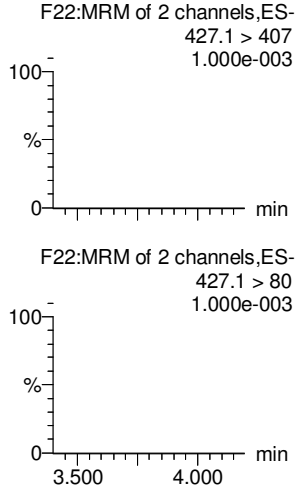
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-3.qld

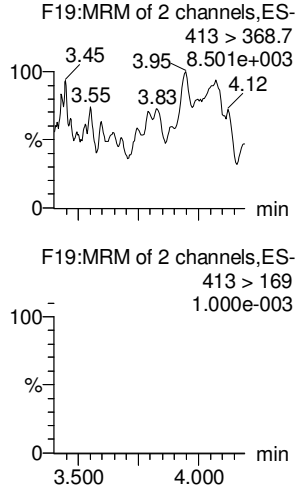
Last Altered: Wednesday, August 16, 2017 09:46:48 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:47:01 Pacific Daylight Time

Name: 170815M1_3, Date: 15-Aug-2017, Time: 13:23:17, ID: IPA, Description: IPA

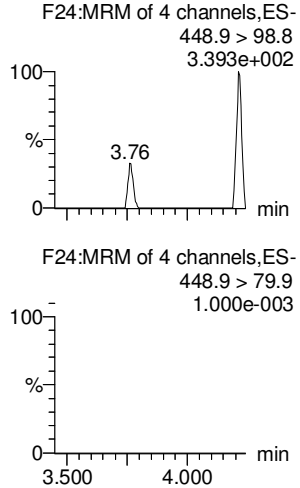
6:2 FTS



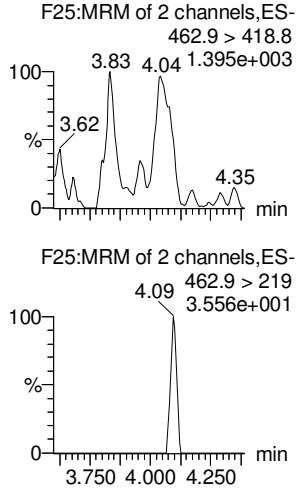
PFOA



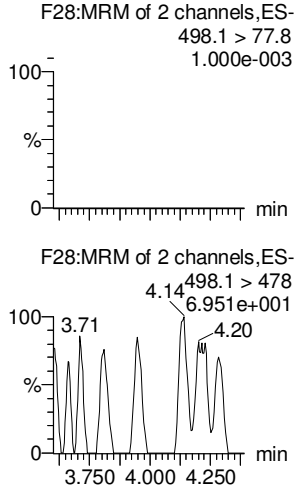
PFHpS



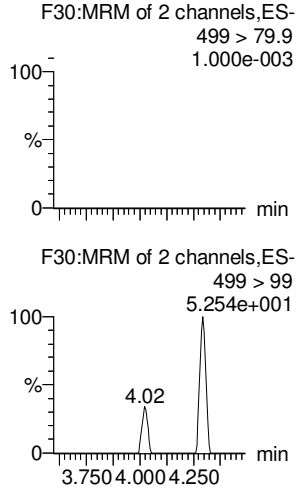
PFNA



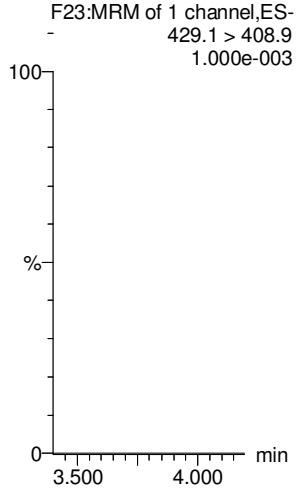
PFOSA



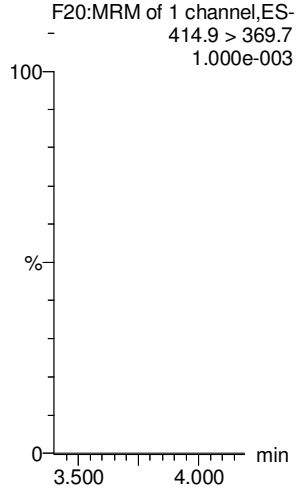
PFOS



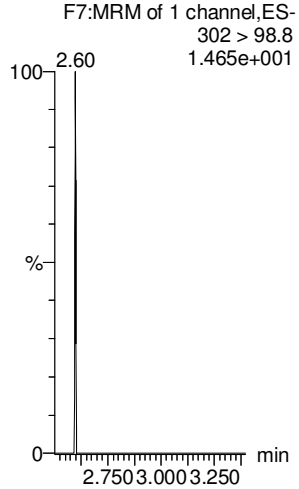
13C2-6:2 FTS



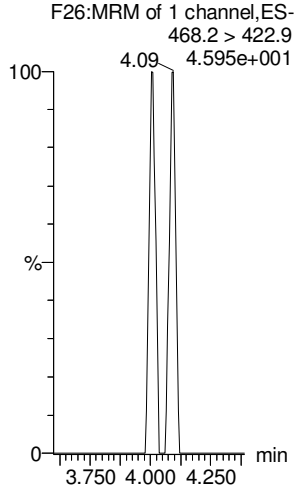
13C2-PFOA



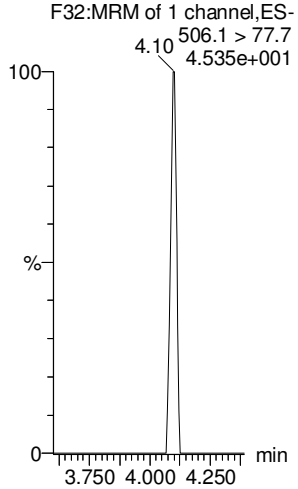
13C3-PFBS



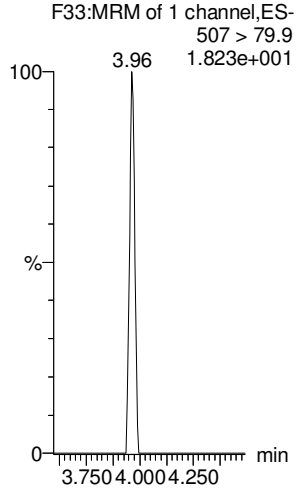
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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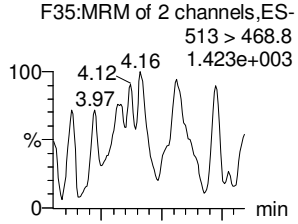
Vista Analytical Laboratory

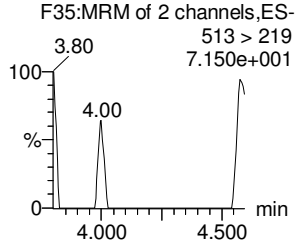
Dataset: U:\Q4.PRO\results\170815M1\170815M1-3.qld

Last Altered: Wednesday, August 16, 2017 09:46:48 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:47:01 Pacific Daylight Time

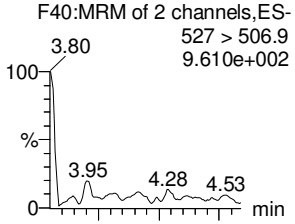
Name: 170815M1_3, Date: 15-Aug-2017, Time: 13:23:17, ID: IPA, Description: IPA

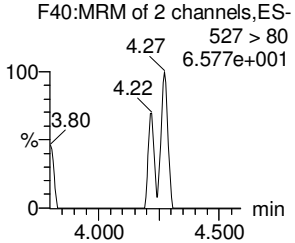
PFDA



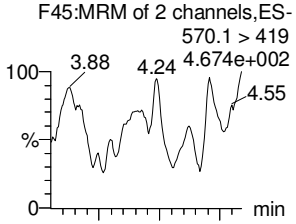


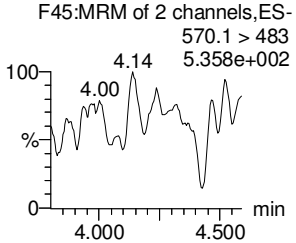
8:2 FTS



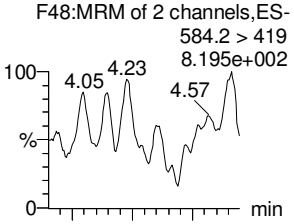


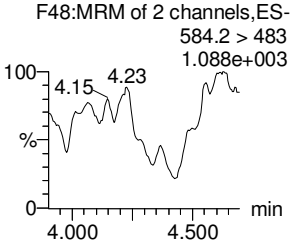
N-MeFOSAA



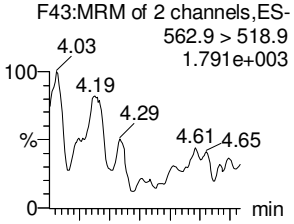


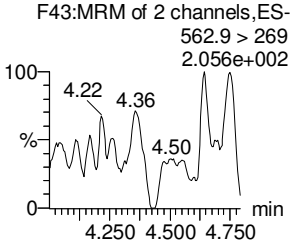
N-EtFOSAA



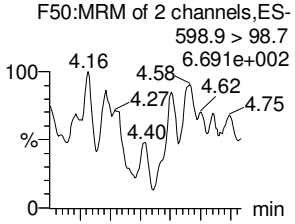


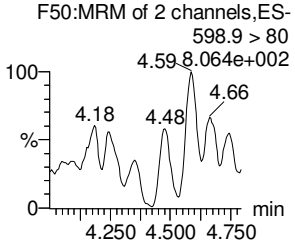
PFUnA



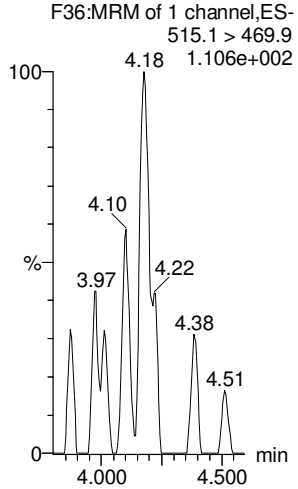


PFDS

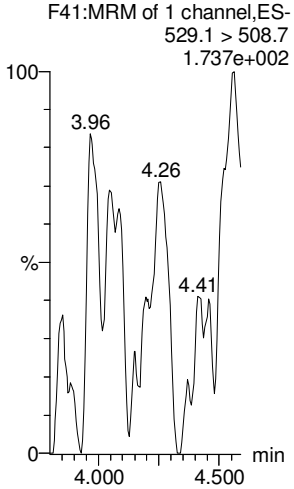




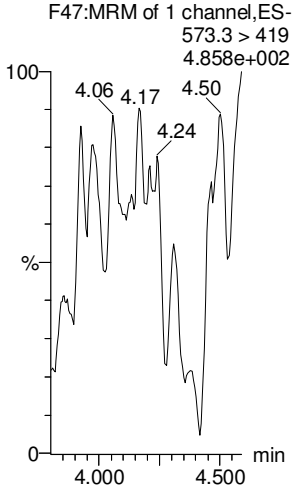
13C2-PFDA



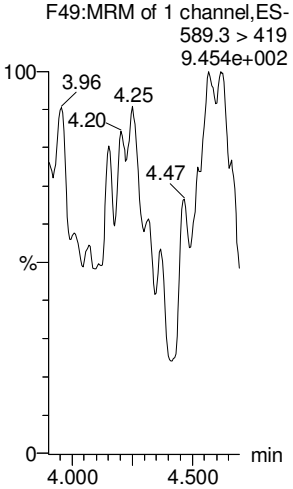
13C2-8:2 FTS



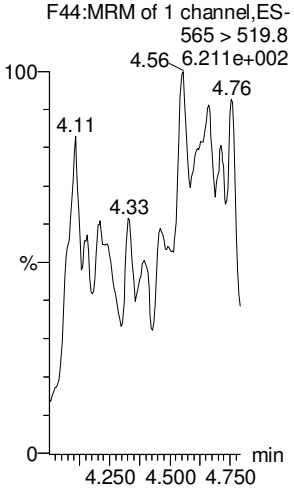
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFUnA



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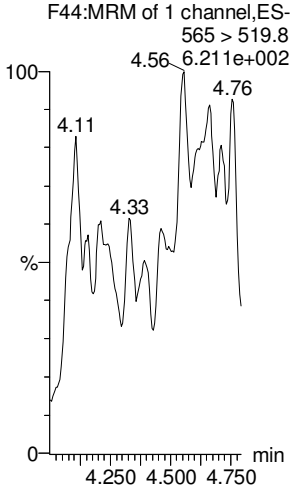


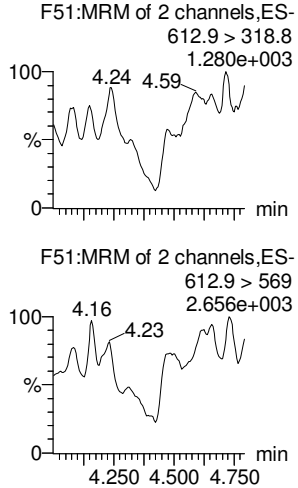
GM 8/16/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-3.qld

Last Altered: Wednesday, August 16, 2017 09:46:48 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:47:01 Pacific Daylight Time

Name: 170815M1_3, Date: 15-Aug-2017, Time: 13:23:17, ID: IPA, Description: IPA

PFDoA



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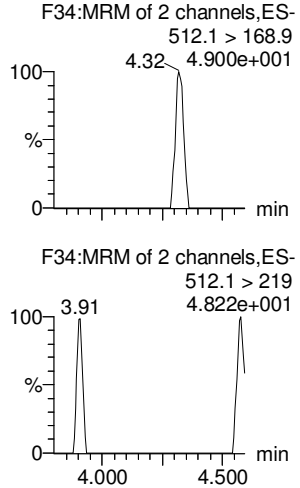

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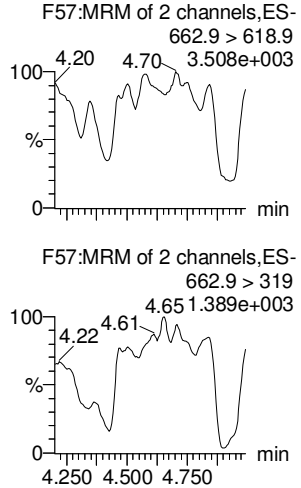

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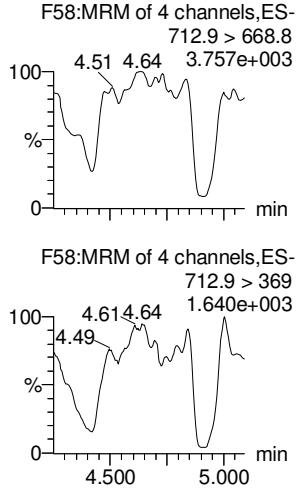

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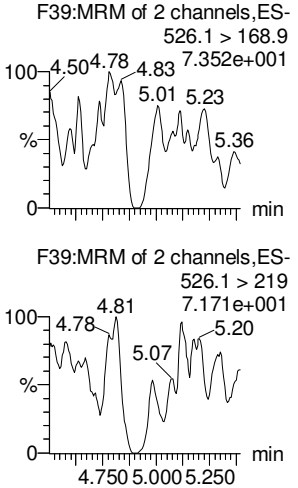

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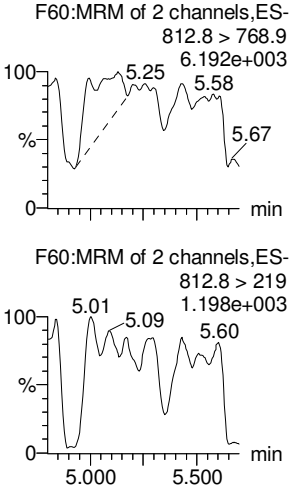

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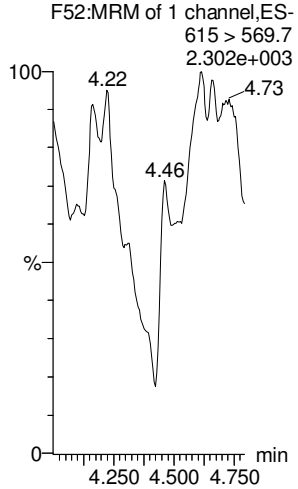

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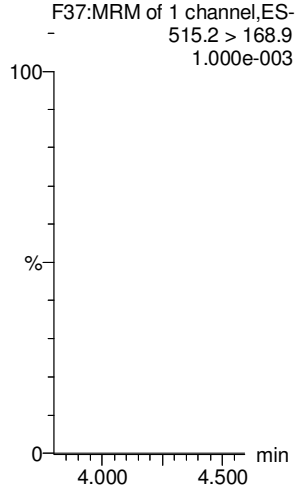

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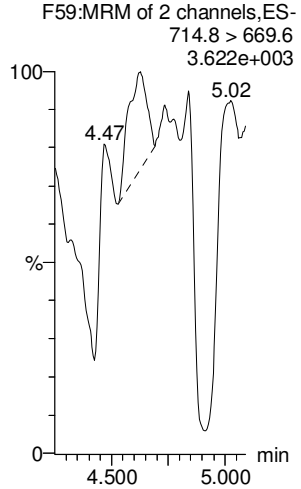

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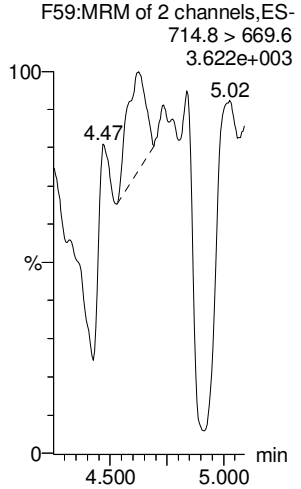

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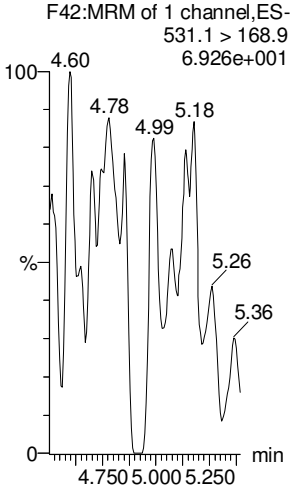

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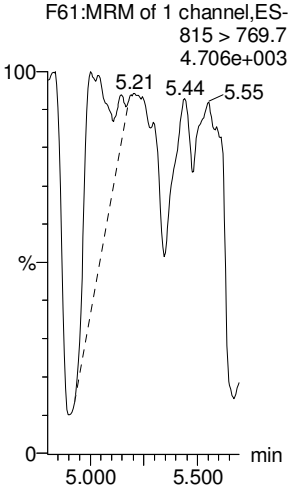

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Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-3.qld

Last Altered: Wednesday, August 16, 2017 09:46:48 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:47:01 Pacific Daylight Time

Name: 170815M1_3, Date: 15-Aug-2017, Time: 13:23:17, ID: IPA, Description: IPA

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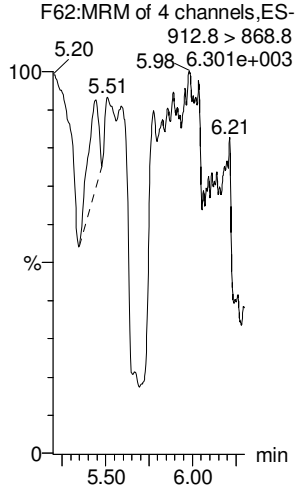

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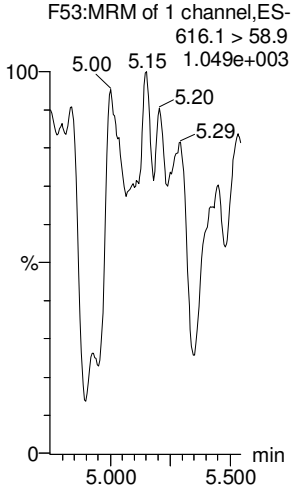

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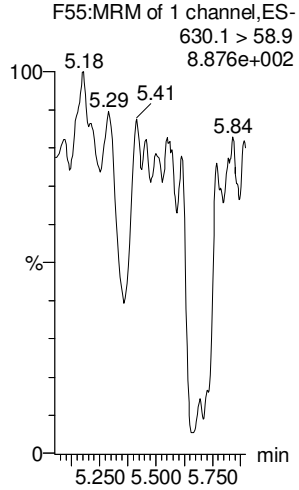

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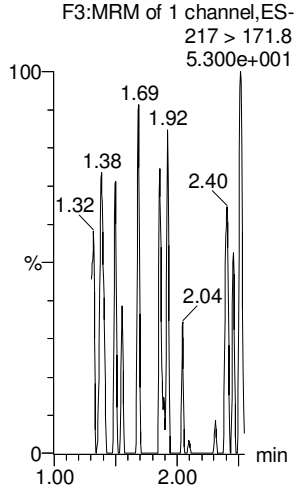

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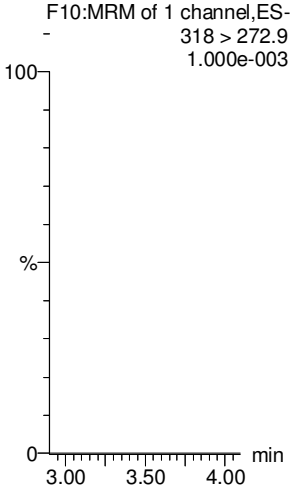

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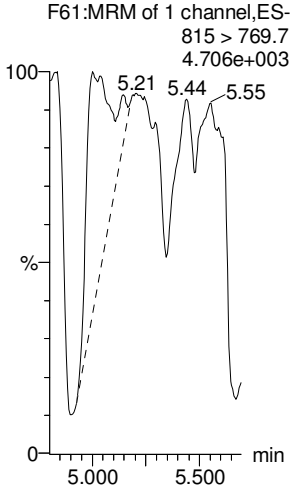

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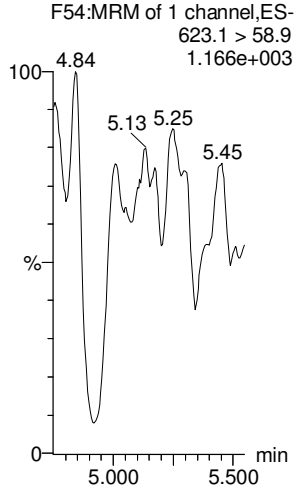

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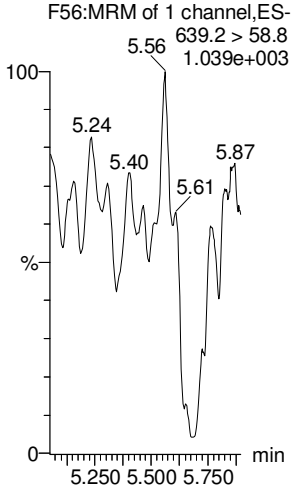

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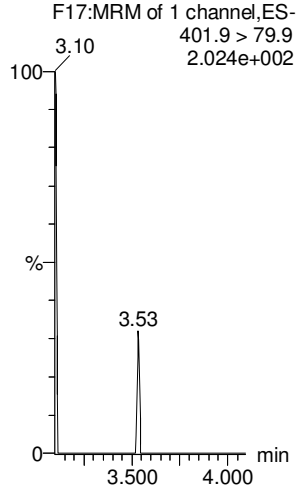

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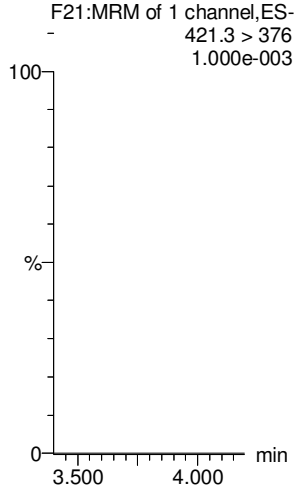

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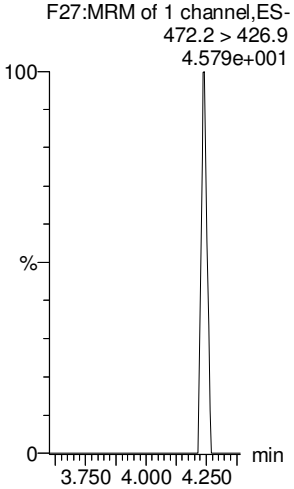


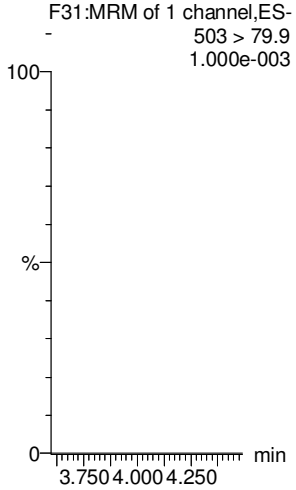
GM 8/16/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-3.qld

Last Altered: Wednesday, August 16, 2017 09:46:48 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:47:01 Pacific Daylight Time

Name: 170815M1_3, Date: 15-Aug-2017, Time: 13:23:17, ID: IPA, Description: IPA

13C4-PFOS



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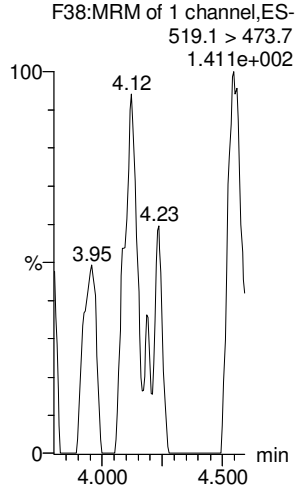

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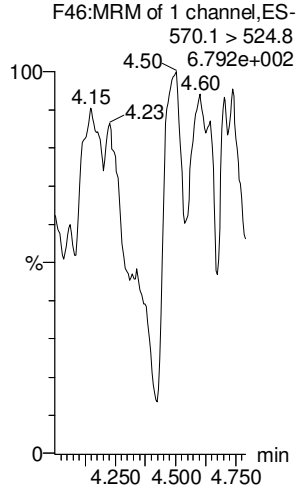

GM 8/16/17

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-2.qld

Last Altered: Wednesday, August 16, 2017 09:48:10 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:48:24 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

(A) out of limit criteria.

Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

	#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec	
1	1	PFBA	213.0 > 168.8	1646.699	17022.521		1.000	1.43	1.05	105.24	70-130
2	2	PFPeA	263.1 > 218.9	2525.251	30514.090		1.000	2.69	0.97	97.19	
3	3	PFBS	299 > 79.7	558.399	3662.750		1.000	2.91	1.01	100.72	
4	4	PFHxA	313.2 > 268.9	4480.659	13893.005		1.000	3.14	0.77	77.18	
5	5	PFHpA	363 > 318.9	5501.625	50060.188		1.000	3.40	0.75	75.49	
6	6	PFHxS	398.9 > 79.6	745.329	4910.829		1.000	3.47	1.14	113.71	
7	7	6:2 FTS	427.1 > 407	1069.135	12831.247		1.000	3.60	1.04	104.49	
8	8	PFOA	413 > 368.7	6524.229	70967.344		1.000	3.60	1.02	101.76	
9	9	PFHpS	448.9 > 98.8	628.800	70967.344		1.000	3.66	1.31	(A) 130.94	
10	10	PFNA	462.9 > 418.8	6048.625	62839.656		1.000	3.78	0.70	70.39	
11	11	PFOSA	498.1 > 77.8	791.377	8099.667		1.000	3.79	1.13	113.34	
12	12	PFOS	499 > 79.9	1177.721	13350.933		1.000	3.84	1.07	106.87	
13	13	PFDA	513 > 468.8	6616.505	63212.453		1.000	3.96	1.05	105.47	
14	14	8:2 FTS	527 > 506.9	894.217	8467.706		1.000	3.95	0.93	93.29	
15	15	N-MeFOSAA	570.1 > 419	2023.227	15622.665		1.000	3.99	1.11	110.66	
16	16	N-EtFOSAA	584.2 > 419	1380.775	14250.190		1.000	4.06	0.97	96.58	
17	17	PFUnA	562.9 > 518.9	4765.569	67303.445		1.000	4.12	0.98	98.29	
18	18	PFDS	598.9 > 98.7	465.272	67303.445		1.000	4.17	0.92	91.62	
19	19	PFDoA	612.9 > 318.8	527.476	7823.967		1.000	4.28	0.96	95.69	
20	20	N-MeFOSA	512.1 > 168.9	1599.842	36234.859		1.000	4.32	6.65	(A) 133.00	
21	21	PFTrDA	662.9 > 618.9	7594.234	7823.967		1.000	4.45	1.09	108.77	
22	22	PFTeDA	712.9 > 668.8	5470.577	55262.918		1.000	4.63	0.99	99.23	
23	23	N-EtFOSA	526.1 > 168.9	1767.426	51211.613		1.000	4.89	5.37	107.46	
24	24	PFHxDA	812.8 > 768.9	7300.092	21569.508		1.000	5.00	1.04	104.32	
25	25	PFODA	912.8 > 868.8	6443.370	21569.508		1.000	5.37	1.09	109.38	
26	26	N-MeFOSE	616.1 > 58.9	2025.413	56909.863		1.000	5.39	4.84	96.81	
27	27	N-EtFOSE	630.1 > 58.9	2350.108	56474.500		1.000	5.56	3.64	72.74	
28	28	13C3-PFBA	216.1 > 171.8	17022.521	18529.873	0.906	1.000	1.43	12.68	101.42	50-150
29	29	13C3-PFPeA	266 > 221.8	30514.090	46612.586	0.284	1.000	2.69	11.53	92.24	
30	30	13C3-PFBS	302 > 98.8	3662.750	46612.586	0.033	1.000	2.91	11.95	95.60	
31	31	13C2-PFHxA	315 > 269.8	13893.005	46612.586	0.304	1.000	3.14	4.91	98.16	
32	32	13C4-PFHpA	367.2 > 321.8	50060.188	46612.586	0.384	1.000	3.40	13.98	111.85	

EM
8/16/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-2.qld

Last Altered: Wednesday, August 16, 2017 09:48:10 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:48:24 Pacific Daylight Time

Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

	#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec
33	33	18O2-PFHxS	403 > 102.6	4910.829	11829.847	0.417	1.000	3.47	12.44	99.52
34	34	13C2-6:2 FTS	429.1 > 408.9	12831.247	58743.977	0.202	1.000	3.59	13.54	108.28
35	35	13C2-PFOA	414.9 > 369.7	70967.344	58743.977	1.132	1.000	3.60	13.34	106.70
36	36	13C5-PFNA	468.2 > 422.9	62839.656	65765.703	0.946	1.000	3.78	12.62	101.00
37	37	13C8-PFOSA	506.1 > 77.7	8099.667	68502.117	0.119	1.000	3.79	12.38	99.01
38	38	13C8-PFOS	507 > 79.9	13350.933	12802.217	1.040	1.000	3.84	12.54	100.29
39	39	13C2-PFDA	515.1 > 469.9	63212.453	59091.094	0.971	1.000	3.96	13.77	110.19
40	40	13C2-8:2 FTS	529.1 > 508.7	8467.706	59091.094	0.140	1.000	3.95	12.77	102.15
41	41	d3-N-MeFOSAA	573.3 > 419	15622.665	68502.117	0.018	1.000	3.99	160.26	98.62
42	42	d5-N-EtFOSAA	589.3 > 419	14250.190	68502.117	0.018	1.000	4.06	142.63	87.77
43	43	13C2-PFUnA	565 > 519.8	67303.445	68502.117	1.085	1.000	4.12	11.32	90.54
44	44	13C2-PFDoA	615 > 569.7	7823.967	68502.117	0.123	1.000	4.29	11.59	92.76
45	45	d3-N-MeFOSA	515.2 > 168.9	36234.859	68502.117	0.043	1.000	4.35	152.82	101.88
46	46	13C2-PFTeDA	714.8 > 669.6	55262.918	68502.117	0.798	1.000	4.63	12.64	101.12
47	47	d5-N-ETFOSA	531.1 > 168.9	51211.613	68502.117	0.056	1.000	4.93	167.84	111.89
48	48	13C2-PFHxDA	815 > 769.7	21569.508	68502.117	0.926	1.000	5.01	4.25	84.97
49	49	d7-N-MeFOSE	623.1 > 58.9	56909.863	68502.117	0.059	1.000	5.38	174.69	116.46
50	50	d9-N-EtFOSE	639.2 > 58.8	56474.500	68502.117	0.059	1.000	5.55	173.25	115.50
51	51	13C4-PFBA	217 > 171.8	18529.873	18529.873	1.000	1.000	1.43	12.50	100.00
52	52	13C5-PFHxA	318 > 272.9	46612.586	46612.586	1.000	1.000	3.14	5.00	100.00
53	53	13C3-PFHxS	401.9 > 79.9	11829.847	11829.847	1.000	1.000	3.47	12.50	100.00
54	54	13C8-PFOA	421.3 > 376	58743.977	58743.977	1.000	1.000	3.60	12.50	100.00
55	55	13C9-PFNA	472.2 > 426.9	65765.703	65765.703	1.000	1.000	3.79	12.50	100.00
56	56	13C4-PFOS	503 > 79.9	12802.217	12802.217	1.000	1.000	3.84	12.50	100.00
57	57	13C6-PFDA	519.1 > 473.7	59091.094	59091.094	1.000	1.000	3.95	12.50	100.00
58	58	13C7-PFUnA	570.1 > 524.8	68502.117	68502.117	1.000	1.000	4.12	12.50	100.00

50-150

Sample List Report — **MassLynx MassLynx V4.1 SCN945 SCN960**

Sample List: U:\Q4.PRO\SampleDB\170815M1.SPL
Last Modified: Tuesday, August 15, 2017 13:50:57 Pacific Daylight Time
Printed: Tuesday, August 15, 2017 13:51:10 Pacific Daylight Time

Page Position (1, 1)

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3	170815M1_3	---	B	IPA	IPA	1.0000	1:48	Blank
4	170815M1_4	-	A	B7H0078-BS1 OPR 0.125	OPR	0.1250	1:15	Analyte
5	170815M1_5	---		IPA	IPA	1.0000	1:48	Blank
6	170815M1_6	-		B7H0078-BLK1 Method Blank 0.125	Method Blank	0.1250	1:16	Analyte
7	170815M1_7	-		B7H0078-MS1 Matrix Spike 0.125	Matrix Spike	0.1250	1:17	Analyte
8	170815M1_8	-		B7H0078-MSD1 Matrix Spike Dup 0.125	Matrix Spike Dup	0.1250	1:18	Analyte
9	170815M1_9	-	C	1700907-04RE1@20 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:33	Analyte
10	170815M1_10	---		IPA	IPA	1.0000	1:48	Blank
11	170815M1_11	-	A	1700862-01RE1 WS 252 0.00025	WS 252	0.0003	1:19	Analyte
12	170815M1_12	-		1700907-04RE1 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:20	Analyte
13	170815M1_13	---		IPA	IPA	1.0000	1:48	Blank
14	170815M1_14	-	A	1701031-01 BANGR-03-GW-TW03-080817 0.125	BANGR-03-GW-TW03-080817	0.1250	1:21	Analyte
15	170815M1_15	-		1701031-02 BANGR-05-GW-TW05-080817 0.125	BANGR-05-GW-TW05-080817	0.1250	1:22	Analyte
16	170815M1_16	-		1701031-03 BANGR-06-GW-TW06-080917 0.125	BANGR-06-GW-TW06-080917	0.1250	1:23	Analyte
17	170815M1_17	-		1701031-04 BANGR-12-GW-TW12-080817 0.125	BANGR-12-GW-TW12-080817	0.1250	1:24	Analyte
18	170815M1_18	-		1701034-01 SB01-20170808 0.125	SB01-20170808	0.1250	1:25	Analyte
19	170815M1_19	-		1701034-02 Site1-GW-01TW03-20170808 0.125	Site1-GW-01TW03-20170808	0.1250	1:26	Analyte
20	170815M1_20	-		1701034-03 Site1-GW-01TW01-20170808 0.125	Site1-GW-01TW01-20170808	0.1250	1:27	Analyte
21	170815M1_21	-		1701034-04 Site1-GW-FD01-20170808 0.125	Site1-GW-FD01-20170808	0.1250	1:28	Analyte
22	170815M1_22	-		1701034-05 EB01-20170808 0.125	EB01-20170808	0.1250	1:29	Analyte
23	170815M1_23	---		IPA	IPA	1.0000	1:48	Blank
24	170815M1_24	X		ST170815M1-2 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
25	170815M1_25	---		IPA	IPA	1.0000	1:48	Blank
26	170815M1_26	-	A	1701034-06 Site1-GW-01TW02-20170808 0.125	Site1-GW-01TW02-20170808	0.1250	1:30	Analyte
27	170815M1_27	-		1701038-01 OC-PFC-MW04R-0817 0.125	OC-PFC-MW04R-0817	0.1250	1:31	Analyte
28	170815M1_28	-	D	1701038-02 OC-PFC-EB081017 0.125	OC-PFC-EB081017	0.1250	1:32	Analyte
29	170815M1_29	---		IPA	IPA	1.0000	1:48	Blank
30	170815M1_30	X		ST170815M1-3 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
31	170815M1_31	---	D	IPA	IPA	1.0000	1:48	Blank

(A) Re-injected because IIS AREA was at the 1st time. am 8/15/17
(B) Instrument paused to adjust windows. am 8/15/17
(C) Instrument paused to load sample on tray. am 8/15/17
(D) Samples added, see corrected.

am 8/15/17

Sample List Report **MassLynx MassLynx V4.1 SCN945 SCN960**

Sample List: U:\Q4.PRO\SampleDB\170815M1.SPL
Last Modified: Tuesday, August 15, 2017 17:54:39 Pacific Daylight Time
Printed: Tuesday, August 15, 2017 17:55:26 Pacific Daylight Time

Page Position (1, 1)

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
1	170815M1_1	---	IPA	IPA	1.0000	1:48	Blank
2	170815M1_2	X	ST170815M1-1 PFC CS0 17H1302	PFC CS0 17H1302	1.0000	1:1	Analyte
3	170815M1_3	---	IPA	IPA	1.0000	1:48	Blank
4	170815M1_4	-	B7H0078-BS1 OPR 0.125	OPR	0.1250	1:15	Analyte
5	170815M1_5	---	IPA	IPA	1.0000	1:48	Blank
6	170815M1_6	-	B7H0078-BLK1 Method Blank 0.125	Method Blank	0.1250	1:16	Analyte
7	170815M1_7	-	B7H0078-MS1 Matrix Spike 0.125	Matrix Spike	0.1250	1:17	Analyte
8	170815M1_8	-	B7H0078-MSD1 Matrix Spike Dup 0.125	Matrix Spike Dup	0.1250	1:18	Analyte
9	170815M1_9	-	1700907-04RE1@20 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:33	Analyte
10	170815M1_10	---	IPA	IPA	1.0000	1:48	Blank
11	170815M1_11	-	1700862-01RE1 WS 252 0.00025	WS 252	0.0003	1:19	Analyte
12	170815M1_12	-	1700907-04RE1 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:20	Analyte
13	170815M1_13	---	IPA	IPA	1.0000	1:48	Blank
14	170815M1_14	-	1701031-01 BANGR-03-GW-TW03-080817 0.125	BANGR-03-GW-TW03-080817	0.1250	1:21	Analyte
15	170815M1_15	-	1701031-02 BANGR-05-GW-TW05-080817 0.125	BANGR-05-GW-TW05-080817	0.1250	1:22	Analyte
16	170815M1_16	-	1701031-03 BANGR-06-GW-TW06-080917 0.125	BANGR-06-GW-TW06-080917	0.1250	1:23	Analyte
17	170815M1_17	-	1701031-04 BANGR-12-GW-TW12-080817 0.125	BANGR-12-GW-TW12-080817	0.1250	1:24	Analyte
18	170815M1_18	-	1701034-01 SB01-20170808 0.125	SB01-20170808	0.1250	1:25	Analyte
19	170815M1_19	-	1701034-02 Site1-GW-01TW03-20170808 0.125	Site1-GW-01TW03-20170808	0.1250	1:26	Analyte
20	170815M1_20	-	1701034-03 Site1-GW-01TW01-20170808 0.125	Site1-GW-01TW01-20170808	0.1250	1:27	Analyte
21	170815M1_21	-	1701034-04 Site1-GW-FD01-20170808 0.125	Site1-GW-FD01-20170808	0.1250	1:28	Analyte
22	170815M1_22	-	1701034-05 EB01-20170808 0.125	EB01-20170808	0.1250	1:29	Analyte
23	170815M1_23	---	(E) IPA	IPA	1.0000	1:48	Blank
24	170815M1_24	X	ST170815M1-2 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
25	170815M1_25	---	IPA	IPA	1.0000	1:48	Blank
26	170815M1_26	-	1701034-06 Site1-GW-01TW02-20170808 0.125	Site1-GW-01TW02-20170808	0.1250	1:30	Analyte
27	170815M1_27	-	1701038-01 OC-PFC-MW04R-0817 0.125	OC-PFC-MW04R-0817	0.1250	1:31	Analyte
28	170815M1_28	-	1701038-02 OC-PFC-EB081017 0.125	OC-PFC-EB081017	0.1250	1:32	Analyte
29	170815M1_29	---	B7H0035-BS1 OPR 0.125	OPR	0.1250	1:33	Analyte
30	170815M1_30	---	IPA	IPA	1.0000	1:48	Blank
31	170815M1_31	---	B7H0035-BLK1 Method Blank 0.125	Method Blank	0.1250	1:34	Analyte
32	170815M1_32	---	B7H0035-MS1 Matrix Spike 0.11511	Matrix Spike	0.1151	1:35	Analyte
33	170815M1_33	---	B7H0035-MSD1 Matrix Spike Dup 0.11806	Matrix Spike Dup	0.1181	1:36	Analyte
34	170815M1_34	---	1700980-01 IR09MW61A-080217 0.10744	IR09MW61A-080217	0.1074	1:37	Analyte
35	170815M1_35	---	1700980-02 IR09MW62A-080217 0.11271	IR09MW62A-080217	0.1127	1:38	Analyte
36	170815M1_36	---	IPA	IPA	0.1127	1:39	Analyte
37	170815M1_37	---	1700980-03 IR09P040A-080217 0.11721	IR09P040A-080217	0.1172	1:40	Analyte
38	170815M1_38	---	1700980-04 IR10MW28A-080217 0.1175	IR10MW28A-080217	0.1175	1:41	Analyte
39	170815M1_39	---	1700980-05 080217-FB-01 0.12184	080217-FB-01	0.1218	1:42	Analyte
40	170815M1_40	---	1700980-06 IR10MW13A1-080217 0.12103	IR10MW13A1-080217	0.1210	1:43	Analyte

(E) Instrument paused to load samples am 8/15/17 am 8/15/17

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
41	170815M1_41	---	IPA	IPA	1.0000	1:48	Blank
42	170815M1_42	X	ST170815M1-3 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
43	170815M1_43	---	IPA	IPA	1.0000	1:48	Blank
44	170815M1_44	---	1700980-07 IR10MW31A1-080217 0.12279	IR10MW31A1-080217	0.1228	1:44	Analyte
45	170815M1_45	---	1700980-08 IR10MW31A1-080217-D 0.11964	IR10MW31A1-080217-D	0.1196	1:45	Analyte
46	170815M1_46	---	1700980-09 080217-ER-01 0.11911	080217-ER-01	0.1191	1:46	Analyte
47	170815M1_47	---	1700980-10 080217-SB-01 0.11909	080217-SB-01	0.1191	1:47	Analyte
48	170815M1_48	---	IPA	IPA	0.1093	2:1	Analyte
49	170815M1_49	---	B7H0066-BS1 OPR 0.125	OPR	0.1250	2:2	Analyte
50	170815M1_50	---	B7H0069-BS1 OPR 0.25	OPR	0.2500	2:3	Analyte
51	170815M1_51	---	IPA	IPA	1.0000	1:48	Blank
52	170815M1_52	---	B7H0066-BLK1 Method Blank 0.125	Method Blank	0.1250	2:4	Analyte
53	170815M1_53	---	B7H0069-BLK1 Method Blank 0.25	Method Blank	0.2500	2:5	Analyte
54	170815M1_54	---	B7H0066-MS1 Matrix Spike 0.11555	Matrix Spike	0.1156	2:6	Analyte
55	170815M1_55	---	B7H0066-MSD1 Matrix Spike Dup 0.11567	Matrix Spike Dup	0.1157	2:7	Analyte
56	170815M1_56	---	B7H0066-MS2 Matrix Spike 0.11836	Matrix Spike	0.1184	2:8	Analyte
57	170815M1_57	---	B7H0066-MSD2 Matrix Spike Dup 0.11729	Matrix Spike Dup	0.1173	2:9	Analyte
58	170815M1_58	---	B7H0069-MS1 Matrix Spike 0.1193	Matrix Spike	0.1193	2:10	Analyte
59	170815M1_59	---	B7H0069-MSD1 Matrix Spike Dup 0.11433	Matrix Spike Dup	0.1143	2:11	Analyte
60	170815M1_60	---	1701011-01 06302140000900_2017 0.11617	06302140000900_2017	0.1162	2:12	Analyte
61	170815M1_61	---	1701011-02 06302140002050_2017 0.11859	06302140002050_2017	0.1186	2:13	Analyte
62	170815M1_62	---	1701011-03 06302140002100_2017 0.11904	06302140002100_2017	0.1190	2:14	Analyte
63	170815M1_63	---	1701011-04 06302810002200_2017 0.11477	06302810002200_2017	0.1148	2:15	Analyte
64	170815M1_64	---	1701011-05 064W5000002700_2017 0.11543	064W5000002700_2017	0.1154	2:16	Analyte
65	170815M1_65	---	1701011-06 FD-01 0.12004	FD-01	0.1200	2:17	Analyte
66	170815M1_66	---	1701011-07 FD-02 0.11727	FD-02	0.1173	2:18	Analyte
67	170815M1_67	---	IPA	IPA	1.0000	1:48	Blank
68	170815M1_68	X	ST170815M1-4 PFC CS0 17H1504	PFC CS0 17H1504	1.0000	1:3	Analyte
69	170815M1_69	---	IPA	IPA	1.0000	1:48	Blank
70	170815M1_70	---	1701011-08 06302130001200_2017 0.12215	06302130001200_2017	0.1221	2:19	Analyte
71	170815M1_71	---	1701011-09 06302130001400A_2017 0.12023	06302130001400A_2017	0.1202	2:20	Analyte
72	170815M1_72	---	1701011-10 06302810001500_B_2017 0.11695	06302810001500_B_2017	0.1170	2:21	Analyte
73	170815M1_73	---	1701011-11 6302840007000_2017 0.11166	6302840007000_2017	0.1117	2:22	Analyte
74	170815M1_74	---	1701011-12 FD-03 0.11337	FD-03	0.1134	2:23	Analyte
75	170815M1_75	---	1701011-13 FD-04 0.12051	FD-04	0.1205	2:24	Analyte
76	170815M1_76	---	1701011-14 FD-05 0.11946	FD-05	0.1195	2:25	Analyte
77	170815M1_77	---	1701011-15 06302720002300_2017 0.11523	06302720002300_2017	0.1152	2:26	Analyte
78	170815M1_78	---	1701011-16 06302720002500_2017-C 0.10939	06302720002500_2017-C	0.1094	2:27	Analyte
79	170815M1_79	---	1701011-17 06302720002800_2017 0.11111	06302720002800_2017	0.1111	2:28	Analyte
80	170815M1_80	---	IPA	IPA	1.0000	1:48	Blank

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
81	170815M1_81	X	ST170815M1-5 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
82	170815M1_82	---	IPA	IPA	1.0000	1:48	Blank
83	170815M1_83	---	1701011-18 06302810001500_A_2017 0.11512	06302810001500_A_2017	0.1151	2:29	Analyte
84	170815M1_84	---	1701011-19 Tr-Prk-Pub-Well-1_2017 0.11801	Tr-Prk-Pub-Well-1_2017	0.1180	2:30	Analyte
85	170815M1_85	---	1701011-20 Tr-Prk-Pub-Well-2_2017 0.11847	Tr-Prk-Pub-Well-2_2017	0.1185	2:31	Analyte
86	170815M1_86	---	1701013-01 06302720002600_2017 0.11643	06302720002600_2017	0.1164	2:32	Analyte
87	170815M1_87	---	1701013-02 06302720002900_2017 0.11676	06302720002900_2017	0.1168	2:33	Analyte
88	170815M1_88	---	1701013-03 06302810000600_2017 0.12244	06302810000600_2017	0.1224	2:34	Analyte
89	170815M1_89	---	1701013-04 064A3000000100_2017 0.1166	064A3000000100_2017	0.1166	2:35	Analyte
90	170815M1_90	---	1701013-05 064A3500005900_2017 0.12037	064A3500005900_2017	0.1204	2:36	Analyte
91	170815M1_91	---	1701013-06 5673_F41_2017 0.12174	5673_F41_2017	0.1217	2:37	Analyte
92	170815M1_92	---	1701013-07 06302140002250_2017 0.12148	06302140002250_2017	0.1215	2:38	Analyte
93	170815M1_93	---	IPA	IPA	1.0000	1:48	Blank
94	170815M1_94	X	ST170815M1-6 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
95	170815M1_95	---	IPA	IPA	1.0000	1:48	Blank
96	170815M1_96	---	1701013-08 06302810001010_2017 0.1142	06302810001010_2017	0.1142	2:39	Analyte
97	170815M1_97	---	1701013-09 064P5000001700_2017 0.12061	064P5000001700_2017	0.1206	2:40	Analyte
98	170815M1_98	---	1701013-10 064V5000000200_2017 0.11516	064V5000000200_2017	0.1152	2:41	Analyte
99	170815M1_99	---	1701013-11 LabDI_2017 0.11964	LabDI_2017	0.1196	2:42	Analyte
100	170815M1_100	---	1701022-01 Lagoon (420-124769-1) 0.24019	Lagoon (420-124769-1)	0.2402	2:43	Analyte
101	170815M1_101	---	1701023-01 SB01-20170807 0.11872	SB01-20170807	0.1187	2:44	Analyte
102	170815M1_102	---	1701023-02 EB01-20170807 0.11734	EB01-20170807	0.1173	2:45	Analyte
103	170815M1_103	---	1701023-03 OUA1-MW08-20170807 0.1175	OUA1-MW08-20170807	0.1175	2:46	Analyte
104	170815M1_104	---	1701023-04 OUA1-HS03-20170807 0.11075	OUA1-HS03-20170807	0.1108	2:47	Analyte
105	170815M1_105	---	1701023-05 EB02-20170808 0.11203	EB02-20170808	0.1120	2:48	Analyte
106	170815M1_106	---	IPA	IPA	1.0000	1:48	Blank
107	170815M1_107	X	ST170815M1-7 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
108	170815M1_108	---	IPA	IPA	1.0000	1:48	Blank
109	170815M1_109	---	B7H0086-BLK1 Method Blank 1	Method Blank	1.0000	1:5	Analyte
110	170815M1_110	---	B7H0086-BS1 OPR 1	OPR	1.0000	1:6	Analyte
111	170815M1_111	---	B7H0086-BS2 OPR 1	OPR	1.0000	1:7	Analyte
112	170815M1_112	---	B7H0086-BS3 OPR 1	OPR	1.0000	1:8	Analyte
113	170815M1_113	---	B7H0086-BS4 OPR 1	OPR	1.0000	1:9	Analyte
114	170815M1_114	---	B7H0086-BS5 OPR 1 1700134-01 PFAS in Soil, 462, Soil 99	OPR PFAS in Soil, 462, Soil 99	1.0000	1:10	Analyte
115	170815M1_115	---	~~1700813-01RE1 LOD/LOQ Full List DoD 3Q17 1~~	~~LOD/LOQ Full List DoD 3Q17~~	1.0000	1:11	Analyte
116	170815M1_116	---	IPA	IPA	1.0000	1:48	Blank
117	170815M1_117	X	ST170815M1-8 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
118	170815M1_118	---	IPA	IPA	1.0000	1:48	Blank
119	170815M1_119	---	170814_1034_3	170814_1034_3	1.0000	1:12	Blank
120	170815M1_120	---	170814_1034_4	170814_1034_4	1.0000	1:13	Blank

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
121	170815M1_121	---	170814_1034_6	170814_1034_6	1.0000	1:14	Blank
122	170815M1_122	---	IPA	IPA	1.0000	1:48	Blank
123	170815M1_123	---	125ml 1:1 ACN/MeOH	125ml 1:1 ACN/MeOH	1.0000	1:15	Blank
124	170815M1_124	---	125ml MeOH Rinse 1	125ml MeOH Rinse 1	1.0000	1:16	Blank
125	170815M1_125	---	125ml MeOH Rinse 2	125ml MeOH Rinse 2	1.0000	1:17	Blank
126	170815M1_126	---	IPA	IPA	1.0000	1:48	Blank

LC Calibration Standards Review Checklist Q4

			ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	NA
Calibration ID:	ST170815M1-1	L M H	~~NA~~ ☐	☑ (A)	☑	☑	☑	☑	☐
Calibration ID:	-2	L M H	☐	☑	☑	☑	☑	☑	☐
Calibration ID:	-3	L M H	☐	☑	☑	☑	☑	☑	☐
Calibration ID:	-4	L M H	☐	☑ (B)	☑	☑	☑	☑	☐
Calibration ID:	-5	L M H	☐	☑	☑	☑	☑	☑	☐
Calibration ID:	-6	L M H	☐	☑	☑	☑	☑	☑	☐
Calibration ID:	-7	L M H	☐	☑ (C)	☑	☑	☑	☑	☐
Calibration ID:	-8	L M H	☐	☑ (C)	☑	☑	☑	☑	☑
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐
Calibration ID:		L M H	☐	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: 6/2/17

Run Log Present: ☑

# of Samples per Sequence Checked: ☑

Reviewed By: [illegible] 8/16/17
Initials/Date

Comments:
Full List
(A) PFHpAS 3 on 8/16/17 N-MeFOSA out of limit criteria.
(B) PFHpA out of limit criteria, not used.
(C) PFHpS out of limit criteria, not used.

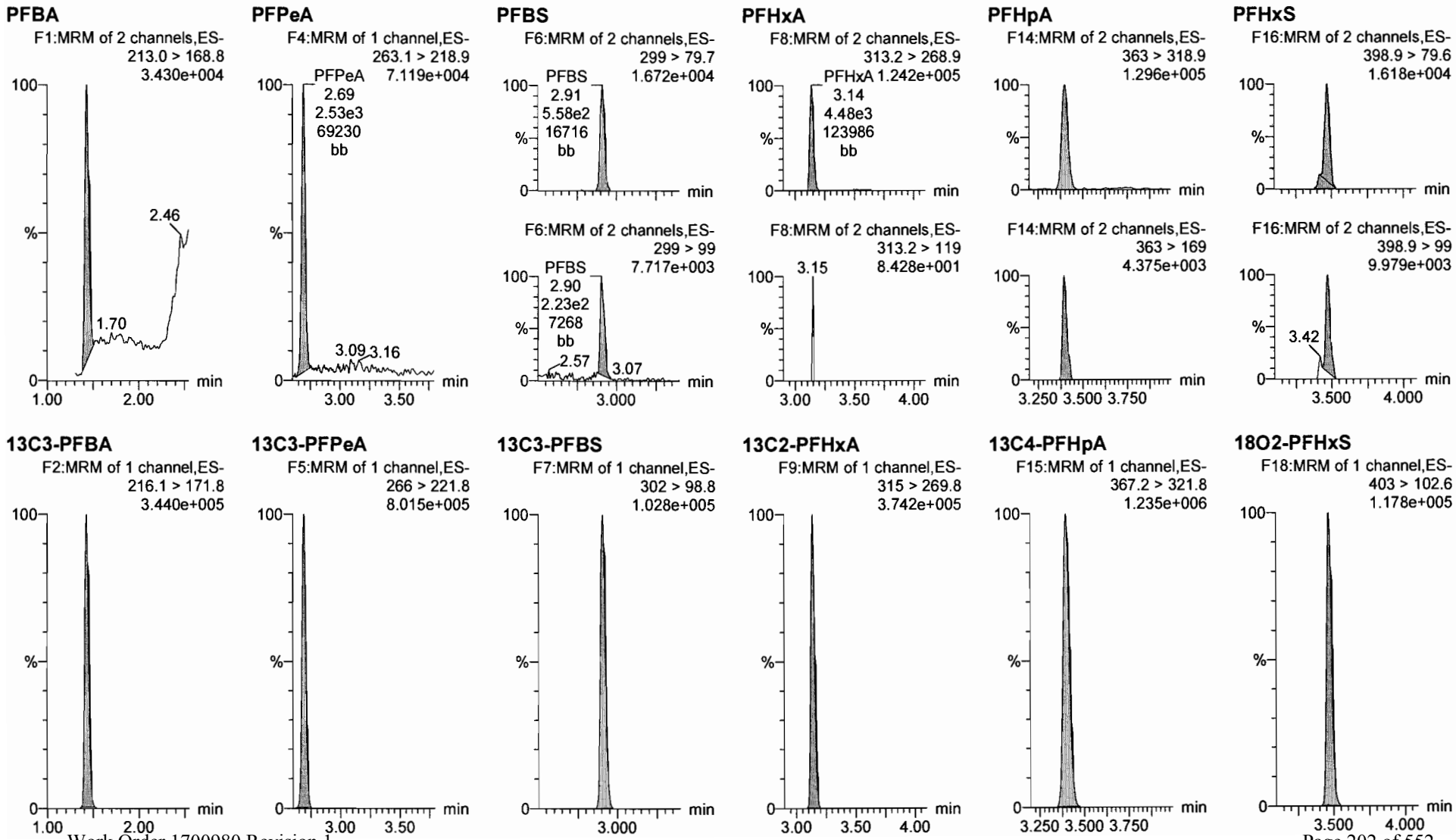
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-2.qld

Last Altered: Wednesday, August 16, 2017 09:45:20 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:46:07 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

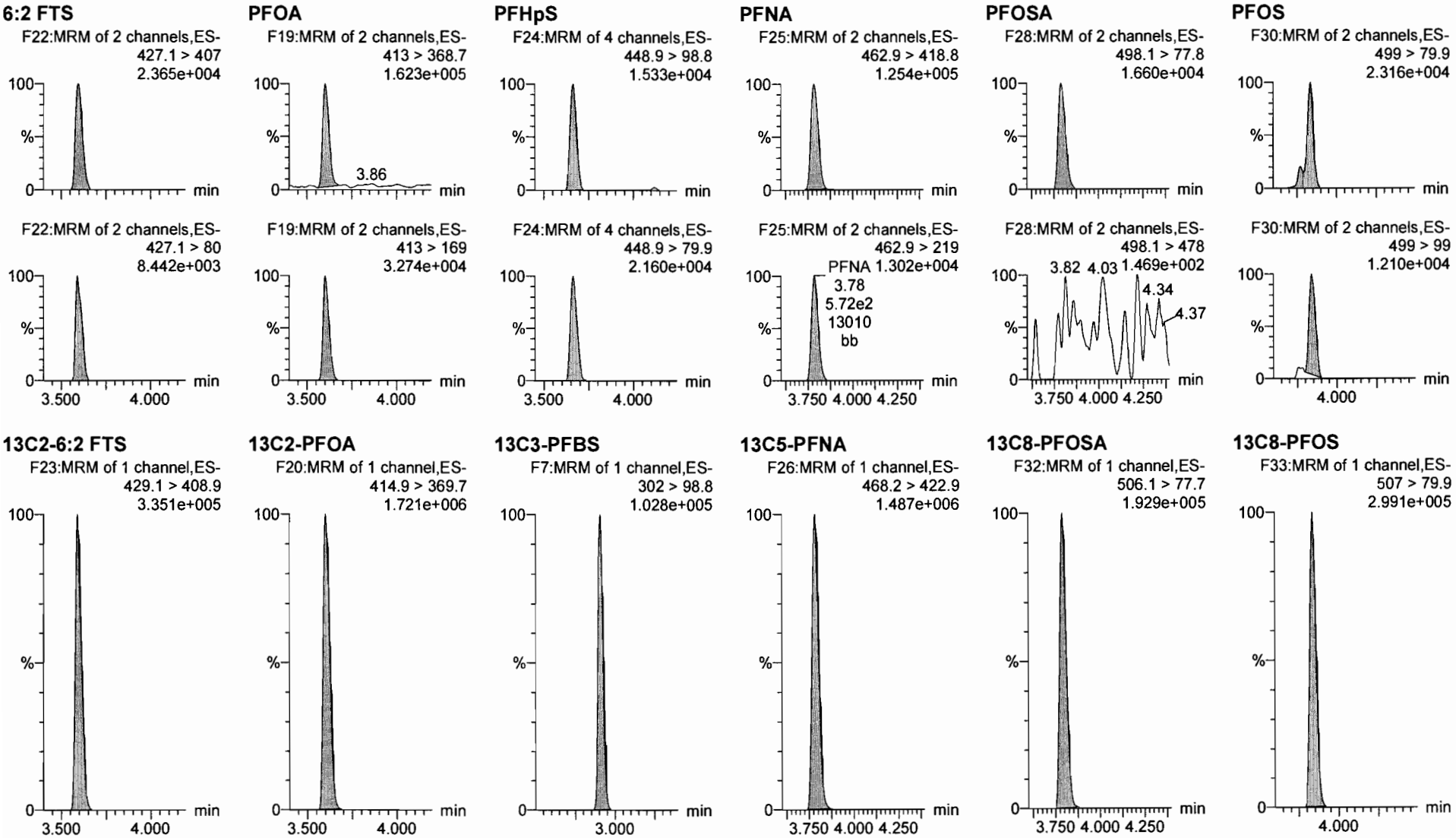
Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302



Dataset: U:\Q4.PRO\results\170815M1\170815M1-2.qld

Last Altered: Wednesday, August 16, 2017 09:45:20 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:46:07 Pacific Daylight Time

Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

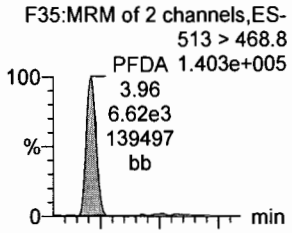


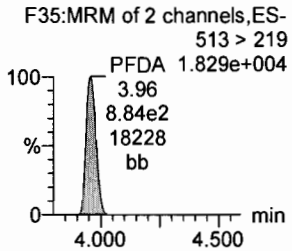
Dataset: U:\Q4.PRO\results\170815M1\170815M1-2.qld

Last Altered: Wednesday, August 16, 2017 09:45:20 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:46:07 Pacific Daylight Time

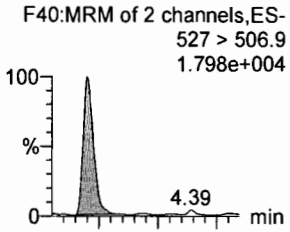
Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

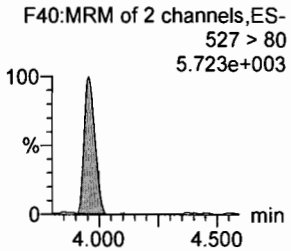
PFDA



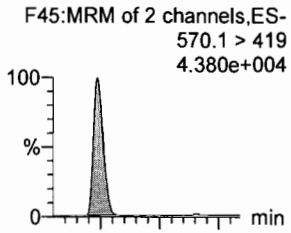


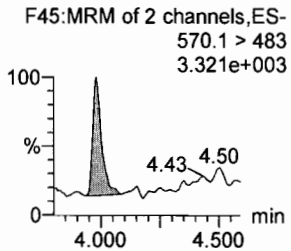
8:2 FTS





N-MeFOSAA





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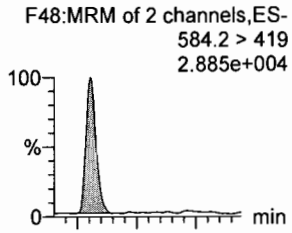
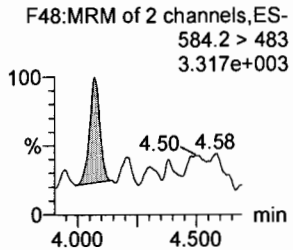
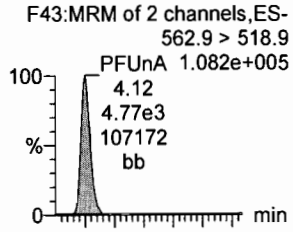
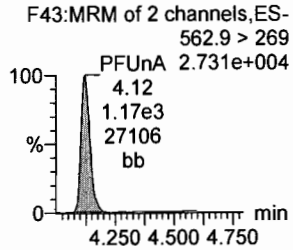




PFUnA





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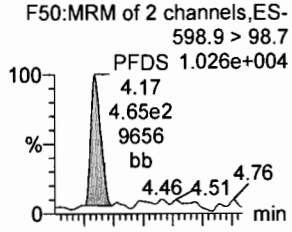
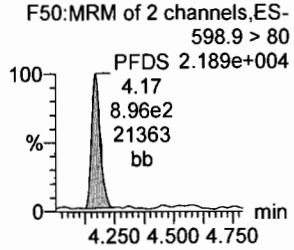
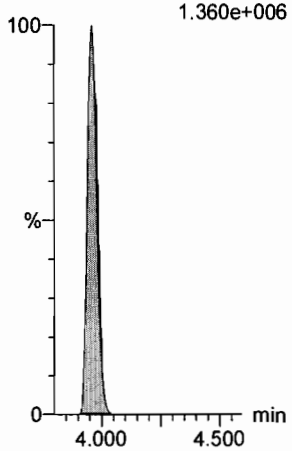
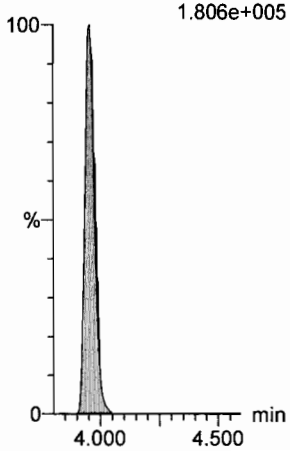




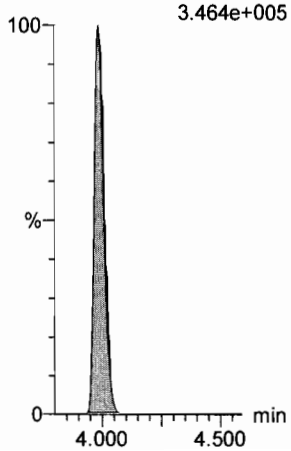
13C2-PFDA



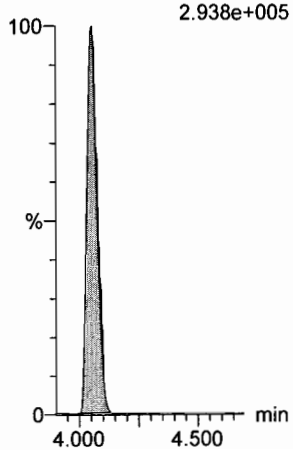
13C2-8:2 FTS



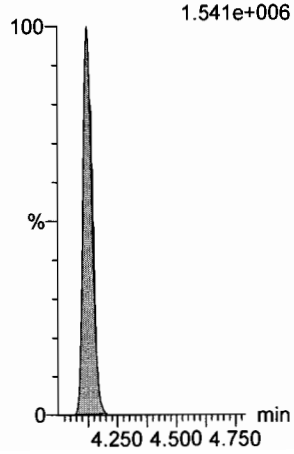
d3-N-MeFOSAA



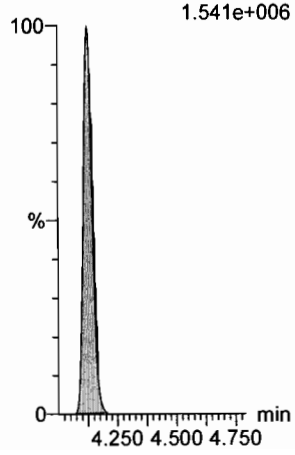
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

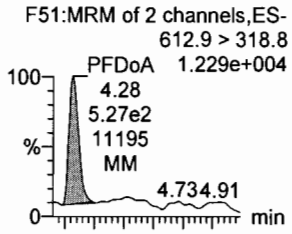


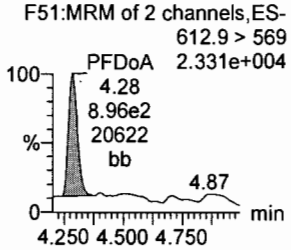
Dataset: U:\Q4.PRO\results\170815M1\170815M1-2.qld

Last Altered: Wednesday, August 16, 2017 09:45:20 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:46:07 Pacific Daylight Time

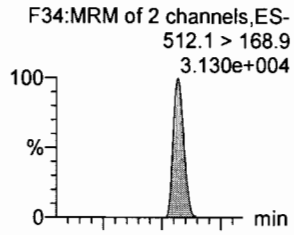
Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

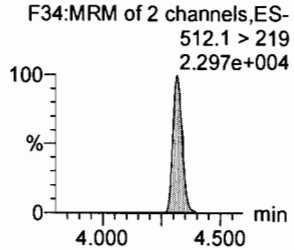
PFDoA



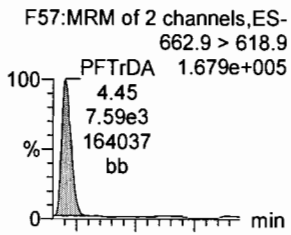


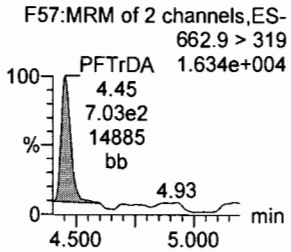
N-MeFOSA



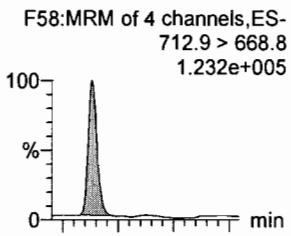


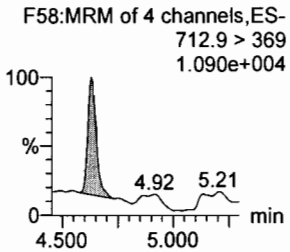
PFTrDA



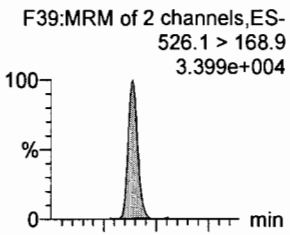


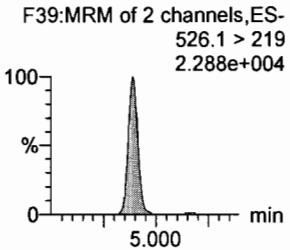
PFTeDA





N-EtFOSA





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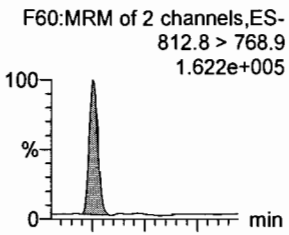
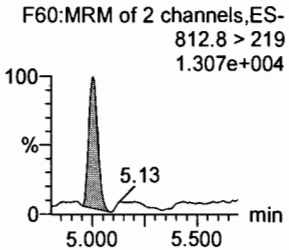
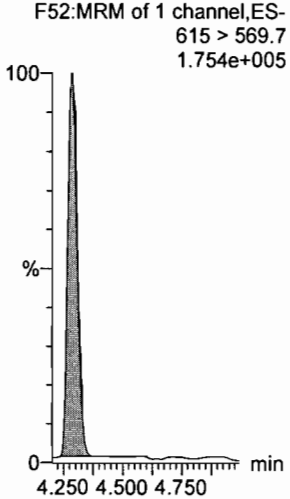
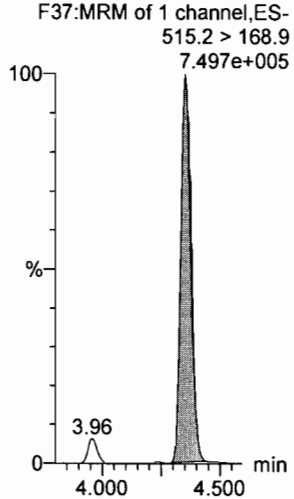




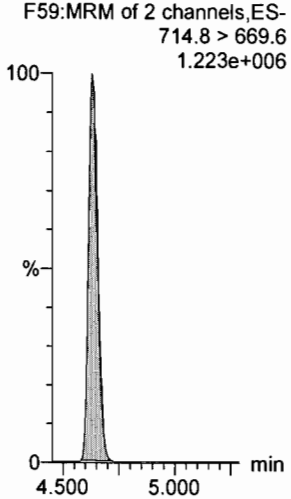
13C2-PFDoA



d3-N-MeFOSA



13C2-PFTeDA



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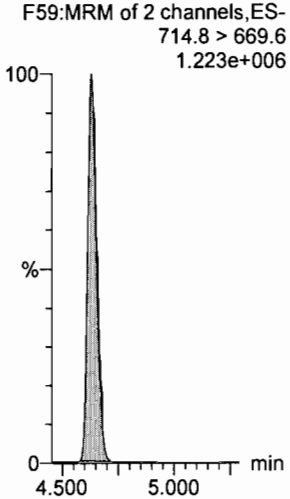
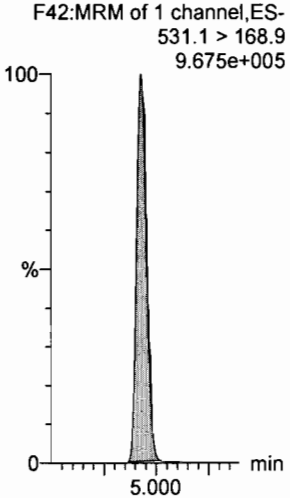
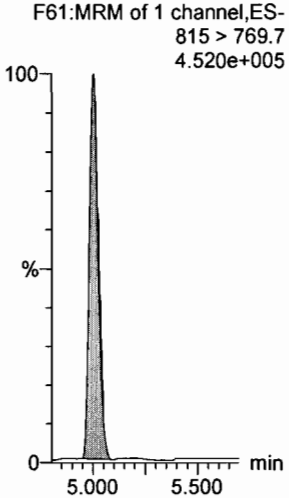


d5-N-ETFOSA



13C2-PFHxDA



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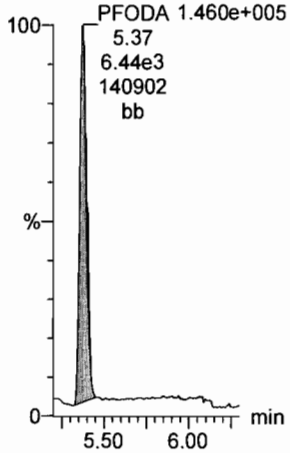
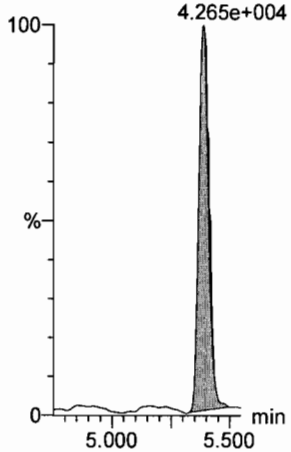
Last Altered: Wednesday, August 16, 2017 09:45:20 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:46:07 Pacific Daylight Time

Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

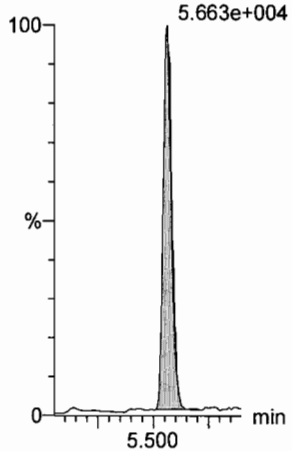
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
PFODA 1.460e+005
5.37
6.44e3
140902
bb



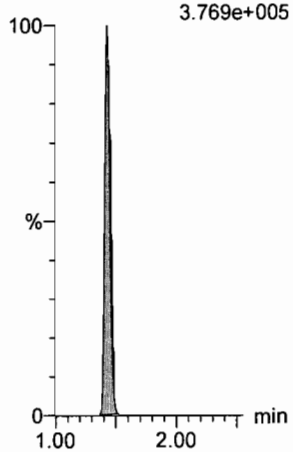
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
4.265e+004



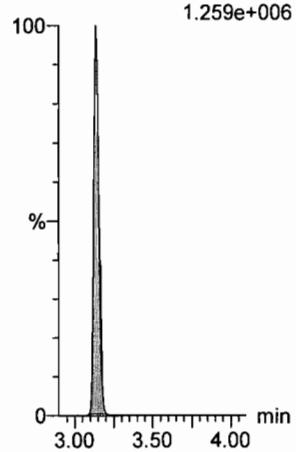
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
5.663e+004



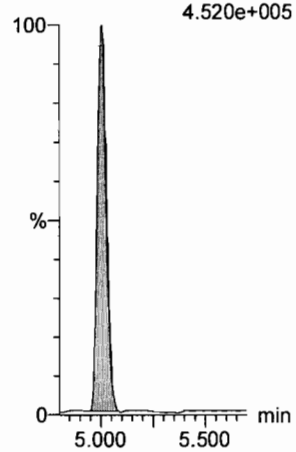
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
3.769e+005



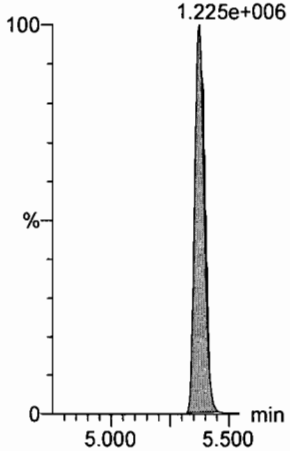
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.259e+006



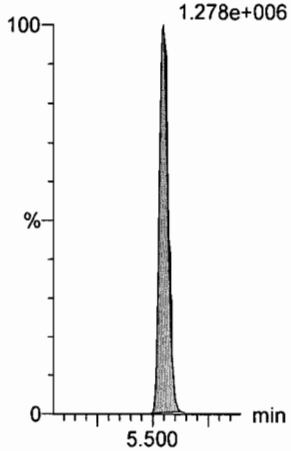
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.520e+005



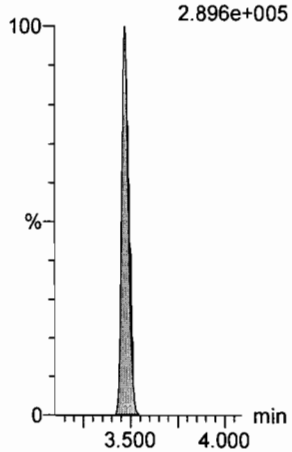
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
1.225e+006



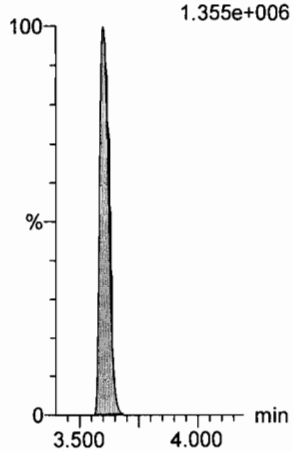
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
1.278e+006



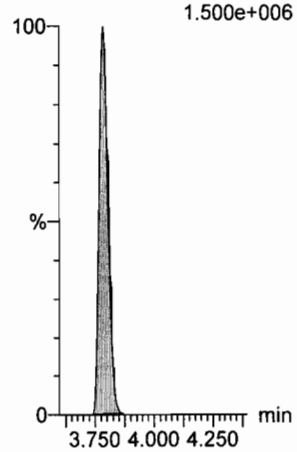
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
2.896e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.355e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.500e+006

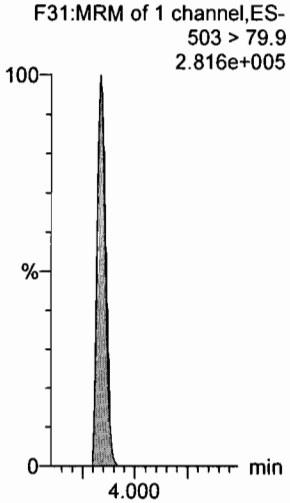


Dataset: U:\Q4.PRO\results\170815M1\170815M1-2.qld

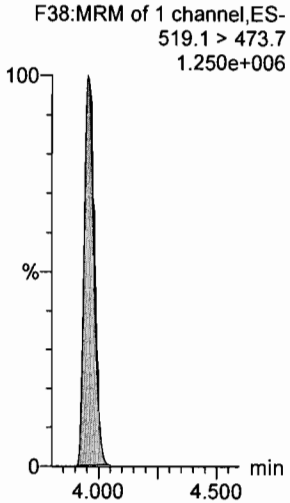
Last Altered: Wednesday, August 16, 2017 09:45:20 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:46:07 Pacific Daylight Time

Name: 170815M1_2, Date: 15-Aug-2017, Time: 13:07:55, ID: ST170815M1-1 PFC CS0 17H1302, Description: PFC CS0 17H1302

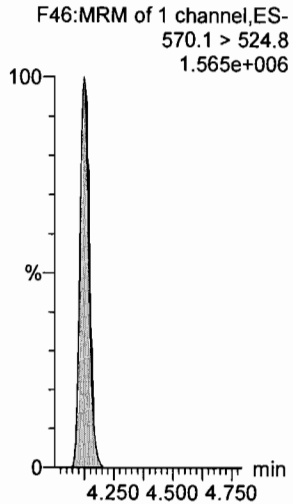
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-24.qld

Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:36 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301

	#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	16595.273	18931.156		1.000	1.44	9.99	99.88
2	2	PFPeA	263.1 > 218.9	27349.803	33695.578		1.000	2.70	10.63	106.31
3	3	PFBS	299 > 79.7	5851.625	4040.181		1.000	2.92	10.46	104.65
4	4	PFHxA	313.2 > 268.9	46118.344	15941.997		1.000	3.15	10.95	109.54
5	5	PFHpA	363 > 318.9	59870.176	59096.453		1.000	3.41	10.74	107.42
6	6	PFHxS	398.9 > 79.6	7103.760	5574.216		1.000	3.48	9.06	90.57
7	7	6:2 FTS	427.1 > 407	10812.200	12962.159		1.000	3.60	11.20	111.99
8	8	PFOA	413 > 368.7	63143.371	76746.680		1.000	3.61	10.34	103.35
9	9	PFHpS	448.9 > 98.8	6073.267	76746.680		1.000	3.67	12.48	124.81
10	10	PFNA	462.9 > 418.8	66842.281	73193.641		1.000	3.79	11.13	111.26
11	11	PFOSA	498.1 > 77.8	7721.616	9154.096		1.000	3.80	10.01	100.13
12	12	PFOS	499 > 79.9	11599.705	14492.571		1.000	3.84	9.42	94.15
13	13	PFDA	513 > 468.8	66171.148	81965.203		1.000	3.97	8.82	88.20
14	14	8:2 FTS	527 > 506.9	8609.939	8640.332		1.000	3.96	8.97	89.67
15	15	N-MeFOSAA	570.1 > 419	19675.762	17571.182		1.000	4.00	9.42	94.18
16	16	N-EtFOSAA	584.2 > 419	16196.048	16036.118		1.000	4.07	10.48	104.83
17	17	PFUnA	562.9 > 518.9	53186.422	86013.297		1.000	4.13	9.46	94.61
18	18	PFDS	598.9 > 98.7	5070.790	86013.297		1.000	4.18	8.90	89.02
19	19	PFDoA	612.9 > 318.8	5673.428	7672.295		1.000	4.29	11.04	110.42
20	20	N-MeFOSA	512.1 > 168.9	12458.075	37298.828		1.000	4.33	56.12	112.24
21	21	PFTrDA	662.9 > 618.9	70612.656	7672.295		1.000	4.46	11.36	113.57
22	22	PFTeDA	712.9 > 668.8	49737.027	54294.883		1.000	4.64	10.01	100.08
23	23	N-EtFOSA	526.1 > 168.9	15801.320	50088.383		1.000	4.89	53.38	106.76
24	24	PFHxDA	812.8 > 768.9	73672.680	27478.441		1.000	5.02	9.23	92.34
25	25	PFODA	912.8 > 868.8	65361.777	27478.441		1.000	5.39	9.28	92.77
26	26	N-MeFOSE	616.1 > 58.9	19078.980	56681.340		1.000	5.39	54.24	108.48
27	27	N-EtFOSE	630.1 > 58.9	21663.037	55227.074		1.000	5.56	55.42	110.84
28	28	13C3-PFBA	216.1 > 171.8	18931.156	20683.689	0.906	1.000	1.43	12.63	101.04
29	29	13C3-PFPeA	266 > 221.8	33695.578	52933.020	0.284	1.000	2.70	11.21	89.69
30	30	13C3-PFBS	302 > 98.8	4040.181	52933.020	0.033	1.000	2.92	11.61	92.86
31	31	13C2-PFHxA	315 > 269.8	15941.997	52933.020	0.304	1.000	3.15	4.96	99.19

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OM 8/16/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-24.qld

Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:36 Pacific Daylight Time

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301

	#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	59096.453	52933.020	0.384	1.000	3.41	14.53	116.27
33	33	18O2-PFHxS	403 > 102.6	5574.216	12611.422	0.417	1.000	3.48	13.25	105.96
34	34	13C2-6:2 FTS	429.1 > 408.9	12962.159	65055.668	0.202	1.000	3.60	12.35	98.77
35	35	13C2-PFOA	414.9 > 369.7	76746.680	65055.668	1.132	1.000	3.61	13.02	104.20
36	36	13C5-PFNA	468.2 > 422.9	73193.641	82428.484	0.946	1.000	3.79	11.73	93.86
37	37	13C8-PFOSA	506.1 > 77.7	9154.096	77591.398	0.119	1.000	3.80	12.35	98.79
38	38	13C8-PFOS	507 > 79.9	14492.571	13080.090	1.040	1.000	3.84	13.32	106.55
39	39	13C2-PFDA	515.1 > 469.9	81965.203	75393.875	0.971	1.000	3.96	14.00	111.99
40	40	13C2-8:2 FTS	529.1 > 508.7	8640.332	75393.875	0.140	1.000	3.96	10.21	81.70
41	41	d3-N-MeFOSAA	573.3 > 419	17571.182	77591.398	0.018	1.000	4.00	159.13	97.93
42	42	d5-N-EtFOSAA	589.3 > 419	16036.118	77591.398	0.018	1.000	4.06	141.70	87.20
43	43	13C2-PFUnA	565 > 519.8	86013.297	77591.398	1.085	1.000	4.13	12.77	102.16
44	44	13C2-PFDoA	615 > 569.7	7672.295	77591.398	0.123	1.000	4.30	10.04	80.30
45	45	d3-N-MeFOSA	515.2 > 168.9	37298.828	77591.398	0.043	1.000	4.36	138.88	92.59
46	46	13C2-PFTeDA	714.8 > 669.6	54294.883	77591.398	0.798	1.000	4.64	10.96	87.71
47	47	d5-N-ETFOSA	531.1 > 168.9	50088.383	77591.398	0.056	1.000	4.93	144.93	96.62
48	48	13C2-PFHxDA	815 > 769.7	27478.441	77591.398	0.926	1.000	5.02	4.78	95.56
49	49	d7-N-MeFOSE	623.1 > 58.9	56681.340	77591.398	0.059	1.000	5.38	153.61	102.41
50	50	d9-N-EtFOSE	639.2 > 58.8	55227.074	77591.398	0.059	1.000	5.55	149.58	99.72
51	51	13C4-PFBA	217 > 171.8	20683.689	20683.689	1.000	1.000	1.43	12.50	100.00
52	52	13C5-PFHxA	318 > 272.9	52933.020	52933.020	1.000	1.000	3.15	5.00	100.00
53	53	13C3-PFHxS	401.9 > 79.9	12611.422	12611.422	1.000	1.000	3.48	12.50	100.00
54	54	13C8-PFOA	421.3 > 376	65055.668	65055.668	1.000	1.000	3.61	12.50	100.00
55	55	13C9-PFNA	472.2 > 426.9	82428.484	82428.484	1.000	1.000	3.79	12.50	100.00
56	56	13C4-PFOS	503 > 79.9	13080.090	13080.090	1.000	1.000	3.84	12.50	100.00
57	57	13C6-PFDA	519.1 > 473.7	75393.875	75393.875	1.000	1.000	3.96	12.50	100.00
58	58	13C7-PFUnA	570.1 > 524.8	77591.398	77591.398	1.000	1.000	4.13	12.50	100.00

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Sample List Report **MassLynx MassLynx V4.1 SCN945 SCN960**

Sample List: U:\Q4.PRO\SampleDB\170815M1.SPL
Last Modified: Tuesday, August 15, 2017 13:50:57 Pacific Daylight Time
Printed: Tuesday, August 15, 2017 13:51:10 Pacific Daylight Time

Page Position (1, 1)

	File Name	RS OK=X		Sample ID	File Text	User Divisor 1	Bottle	Sample Type
1	170815M1_1	---		IPA	IPA	1.0000	1:48	Blank
2	170815M1_2	X		ST170815M1-1 PFC CS0 17H1302	PFC CS0 17H1302	1.0000	1:1	Analyte
3	170815M1_3	---	B	IPA	IPA	1.0000	1:48	Blank
4	170815M1_4	-	A	B7H0078-BS1 OPR 0.125	OPR	0.1250	1:15	Analyte
5	170815M1_5	---		IPA	IPA	1.0000	1:48	Blank
6	170815M1_6	-		B7H0078-BLK1 Method Blank 0.125	Method Blank	0.1250	1:16	Analyte
7	170815M1_7	-		B7H0078-MS1 Matrix Spike 0.125	Matrix Spike	0.1250	1:17	Analyte
8	170815M1_8	-		B7H0078-MSD1 Matrix Spike Dup 0.125	Matrix Spike Dup	0.1250	1:18	Analyte
9	170815M1_9	-	C	1700907-04RE1@20 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:33	Analyte
10	170815M1_10	---		IPA	IPA	1.0000	1:48	Blank
11	170815M1_11	-	A	1700862-01RE1 WS 252 0.00025	WS 252	0.0003	1:19	Analyte
12	170815M1_12	-		1700907-04RE1 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:20	Analyte
13	170815M1_13	---		IPA	IPA	1.0000	1:48	Blank
14	170815M1_14	-	A	1701031-01 BANGR-03-GW-TW03-080817 0.125	BANGR-03-GW-TW03-080817	0.1250	1:21	Analyte
15	170815M1_15	-		1701031-02 BANGR-05-GW-TW05-080817 0.125	BANGR-05-GW-TW05-080817	0.1250	1:22	Analyte
16	170815M1_16	-		1701031-03 BANGR-06-GW-TW06-080917 0.125	BANGR-06-GW-TW06-080917	0.1250	1:23	Analyte
17	170815M1_17	-		1701031-04 BANGR-12-GW-TW12-080817 0.125	BANGR-12-GW-TW12-080817	0.1250	1:24	Analyte
18	170815M1_18	-		1701034-01 SB01-20170808 0.125	SB01-20170808	0.1250	1:25	Analyte
19	170815M1_19	-		1701034-02 Site1-GW-01TW03-20170808 0.125	Site1-GW-01TW03-20170808	0.1250	1:26	Analyte
20	170815M1_20	-		1701034-03 Site1-GW-01TW01-20170808 0.125	Site1-GW-01TW01-20170808	0.1250	1:27	Analyte
21	170815M1_21	-		1701034-04 Site1-GW-FD01-20170808 0.125	Site1-GW-FD01-20170808	0.1250	1:28	Analyte
22	170815M1_22	-		1701034-05 EB01-20170808 0.125	EB01-20170808	0.1250	1:29	Analyte
23	170815M1_23	---		IPA	IPA	1.0000	1:48	Blank
24	170815M1_24	X		ST170815M1-2 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
25	170815M1_25	---		IPA	IPA	1.0000	1:48	Blank
26	170815M1_26	-	A	1701034-06 Site1-GW-01TW02-20170808 0.125	Site1-GW-01TW02-20170808	0.1250	1:30	Analyte
27	170815M1_27	-		1701038-01 OC-PFC-MW04R-0817 0.125	OC-PFC-MW04R-0817	0.1250	1:31	Analyte
28	170815M1_28	-	D	1701038-02 OC-PFC-EB081017 0.125	OC-PFC-EB081017	0.1250	1:32	Analyte
29	170815M1_29	---		IPA	IPA	1.0000	1:48	Blank
30	170815M1_30	X		ST170815M1-3 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
31	170815M1_31	---	D	IPA	IPA	1.0000	1:48	Blank

(A) Re-injected because IIS AREA was at the 1st time. am 8/15/17
(B) Instrument paused to adjust windows. am 8/15/17
(C) Instrument paused to load sample on tray. am 8/15/17
(D) Samples added, see corrected. am 8/15/17

Sample List Report **MassLynx MassLynx V4.1 SCN945 SCN960**

Sample List: U:\Q4.PRO\SampleDB\170815M1.SPL
Last Modified: Tuesday, August 15, 2017 17:54:39 Pacific Daylight Time
Printed: Tuesday, August 15, 2017 17:55:26 Pacific Daylight Time

Page Position (1, 1)

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
1	170815M1_1	---	IPA	IPA	1.0000	1:48	Blank
2	170815M1_2	X	ST170815M1-1 PFC CS0 17H1302	PFC CS0 17H1302	1.0000	1:1	Analyte
3	170815M1_3	---	IPA	IPA	1.0000	1:48	Blank
4	170815M1_4	-	B7H0078-BS1 OPR 0.125	OPR	0.1250	1:15	Analyte
5	170815M1_5	---	IPA	IPA	1.0000	1:48	Blank
6	170815M1_6	-	B7H0078-BLK1 Method Blank 0.125	Method Blank	0.1250	1:16	Analyte
7	170815M1_7	-	B7H0078-MS1 Matrix Spike 0.125	Matrix Spike	0.1250	1:17	Analyte
8	170815M1_8	-	B7H0078-MSD1 Matrix Spike Dup 0.125	Matrix Spike Dup	0.1250	1:18	Analyte
9	170815M1_9	-	1700907-04RE1@20 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:33	Analyte
10	170815M1_10	---	IPA	IPA	1.0000	1:48	Blank
11	170815M1_11	-	1700862-01RE1 WS 252 0.00025	WS 252	0.0003	1:19	Analyte
12	170815M1_12	-	1700907-04RE1 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:20	Analyte
13	170815M1_13	---	IPA	IPA	1.0000	1:48	Blank
14	170815M1_14	-	1701031-01 BANGR-03-GW-TW03-080817 0.125	BANGR-03-GW-TW03-080817	0.1250	1:21	Analyte
15	170815M1_15	-	1701031-02 BANGR-05-GW-TW05-080817 0.125	BANGR-05-GW-TW05-080817	0.1250	1:22	Analyte
16	170815M1_16	-	1701031-03 BANGR-06-GW-TW06-080917 0.125	BANGR-06-GW-TW06-080917	0.1250	1:23	Analyte
17	170815M1_17	-	1701031-04 BANGR-12-GW-TW12-080817 0.125	BANGR-12-GW-TW12-080817	0.1250	1:24	Analyte
18	170815M1_18	-	1701034-01 SB01-20170808 0.125	SB01-20170808	0.1250	1:25	Analyte
19	170815M1_19	-	1701034-02 Site1-GW-01TW03-20170808 0.125	Site1-GW-01TW03-20170808	0.1250	1:26	Analyte
20	170815M1_20	-	1701034-03 Site1-GW-01TW01-20170808 0.125	Site1-GW-01TW01-20170808	0.1250	1:27	Analyte
21	170815M1_21	-	1701034-04 Site1-GW-FD01-20170808 0.125	Site1-GW-FD01-20170808	0.1250	1:28	Analyte
22	170815M1_22	-	1701034-05 EB01-20170808 0.125	EB01-20170808	0.1250	1:29	Analyte
23	170815M1_23	---	(E) IPA	IPA	1.0000	1:48	Blank
24	170815M1_24	X	ST170815M1-2 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
25	170815M1_25	---	IPA	IPA	1.0000	1:48	Blank
26	170815M1_26	-	1701034-06 Site1-GW-01TW02-20170808 0.125	Site1-GW-01TW02-20170808	0.1250	1:30	Analyte
27	170815M1_27	-	1701038-01 OC-PFC-MW04R-0817 0.125	OC-PFC-MW04R-0817	0.1250	1:31	Analyte
28	170815M1_28	-	1701038-02 OC-PFC-EB081017 0.125	OC-PFC-EB081017	0.1250	1:32	Analyte
29	170815M1_29	---	B7H0035-BS1 OPR 0.125	OPR	0.1250	1:33	Analyte
30	170815M1_30	---	IPA	IPA	1.0000	1:48	Blank
31	170815M1_31	---	B7H0035-BLK1 Method Blank 0.125	Method Blank	0.1250	1:34	Analyte
32	170815M1_32	---	B7H0035-MS1 Matrix Spike 0.11511	Matrix Spike	0.1151	1:35	Analyte
33	170815M1_33	---	B7H0035-MSD1 Matrix Spike Dup 0.11806	Matrix Spike Dup	0.1181	1:36	Analyte
34	170815M1_34	---	1700980-01 IR09MW61A-080217 0.10744	IR09MW61A-080217	0.1074	1:37	Analyte
35	170815M1_35	---	1700980-02 IR09MW62A-080217 0.11271	IR09MW62A-080217	0.1127	1:38	Analyte
36	170815M1_36	---	IPA	IPA	0.1127	1:39	Analyte
37	170815M1_37	---	1700980-03 IR09P040A-080217 0.11721	IR09P040A-080217	0.1172	1:40	Analyte
38	170815M1_38	---	1700980-04 IR10MW28A-080217 0.1175	IR10MW28A-080217	0.1175	1:41	Analyte
39	170815M1_39	---	1700980-05 080217-FB-01 0.12184	080217-FB-01	0.1218	1:42	Analyte
40	170815M1_40	---	1700980-06 IR10MW13A1-080217 0.12103	IR10MW13A1-080217	0.1210	1:43	Analyte

(E) instrument paused to load samples am 8/15/17 am 8/15/17

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
41	170815M1_41	---	IPA	IPA	1.0000	1:48	Blank
42	170815M1_42	X	ST170815M1-3 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
43	170815M1_43	---	IPA	IPA	1.0000	1:48	Blank
44	170815M1_44	---	1700980-07 IR10MW31A1-080217 0.12279	IR10MW31A1-080217	0.1228	1:44	Analyte
45	170815M1_45	---	1700980-08 IR10MW31A1-080217-D 0.11964	IR10MW31A1-080217-D	0.1196	1:45	Analyte
46	170815M1_46	---	1700980-09 080217-ER-01 0.11911	080217-ER-01	0.1191	1:46	Analyte
47	170815M1_47	---	1700980-10 080217-SB-01 0.11909	080217-SB-01	0.1191	1:47	Analyte
48	170815M1_48	---	IPA	IPA	0.1093	2:1	Analyte
49	170815M1_49	---	B7H0066-BS1 OPR 0.125	OPR	0.1250	2:2	Analyte
50	170815M1_50	---	B7H0069-BS1 OPR 0.25	OPR	0.2500	2:3	Analyte
51	170815M1_51	---	IPA	IPA	1.0000	1:48	Blank
52	170815M1_52	---	B7H0066-BLK1 Method Blank 0.125	Method Blank	0.1250	2:4	Analyte
53	170815M1_53	---	B7H0069-BLK1 Method Blank 0.25	Method Blank	0.2500	2:5	Analyte
54	170815M1_54	---	B7H0066-MS1 Matrix Spike 0.11555	Matrix Spike	0.1156	2:6	Analyte
55	170815M1_55	---	B7H0066-MSD1 Matrix Spike Dup 0.11567	Matrix Spike Dup	0.1157	2:7	Analyte
56	170815M1_56	---	B7H0066-MS2 Matrix Spike 0.11836	Matrix Spike	0.1184	2:8	Analyte
57	170815M1_57	---	B7H0066-MSD2 Matrix Spike Dup 0.11729	Matrix Spike Dup	0.1173	2:9	Analyte
58	170815M1_58	---	B7H0069-MS1 Matrix Spike 0.1193	Matrix Spike	0.1193	2:10	Analyte
59	170815M1_59	---	B7H0069-MSD1 Matrix Spike Dup 0.11433	Matrix Spike Dup	0.1143	2:11	Analyte
60	170815M1_60	---	1701011-01 06302140000900_2017 0.11617	06302140000900_2017	0.1162	2:12	Analyte
61	170815M1_61	---	1701011-02 06302140002050_2017 0.11859	06302140002050_2017	0.1186	2:13	Analyte
62	170815M1_62	---	1701011-03 06302140002100_2017 0.11904	06302140002100_2017	0.1190	2:14	Analyte
63	170815M1_63	---	1701011-04 06302810002200_2017 0.11477	06302810002200_2017	0.1148	2:15	Analyte
64	170815M1_64	---	1701011-05 064W5000002700_2017 0.11543	064W5000002700_2017	0.1154	2:16	Analyte
65	170815M1_65	---	1701011-06 FD-01 0.12004	FD-01	0.1200	2:17	Analyte
66	170815M1_66	---	1701011-07 FD-02 0.11727	FD-02	0.1173	2:18	Analyte
67	170815M1_67	---	IPA	IPA	1.0000	1:48	Blank
68	170815M1_68	X	ST170815M1-4 PFC CS0 17H1504	PFC CS0 17H1504	1.0000	1:3	Analyte
69	170815M1_69	---	IPA	IPA	1.0000	1:48	Blank
70	170815M1_70	---	1701011-08 06302130001200_2017 0.12215	06302130001200_2017	0.1221	2:19	Analyte
71	170815M1_71	---	1701011-09 06302130001400A_2017 0.12023	06302130001400A_2017	0.1202	2:20	Analyte
72	170815M1_72	---	1701011-10 06302810001500_B_2017 0.11695	06302810001500_B_2017	0.1170	2:21	Analyte
73	170815M1_73	---	1701011-11 6302840007000_2017 0.11166	6302840007000_2017	0.1117	2:22	Analyte
74	170815M1_74	---	1701011-12 FD-03 0.11337	FD-03	0.1134	2:23	Analyte
75	170815M1_75	---	1701011-13 FD-04 0.12051	FD-04	0.1205	2:24	Analyte
76	170815M1_76	---	1701011-14 FD-05 0.11946	FD-05	0.1195	2:25	Analyte
77	170815M1_77	---	1701011-15 06302720002300_2017 0.11523	06302720002300_2017	0.1152	2:26	Analyte
78	170815M1_78	---	1701011-16 06302720002500_2017-C 0.10939	06302720002500_2017-C	0.1094	2:27	Analyte
79	170815M1_79	---	1701011-17 06302720002800_2017 0.11111	06302720002800_2017	0.1111	2:28	Analyte
80	170815M1_80	---	IPA	IPA	1.0000	1:48	Blank

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
81	170815M1_81	X	ST170815M1-5 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
82	170815M1_82	---	IPA	IPA	1.0000	1:48	Blank
83	170815M1_83	---	1701011-18 06302810001500_A_2017 0.11512	06302810001500_A_2017	0.1151	2:29	Analyte
84	170815M1_84	---	1701011-19 Tr-Prk-Pub-Well-1_2017 0.11801	Tr-Prk-Pub-Well-1_2017	0.1180	2:30	Analyte
85	170815M1_85	---	1701011-20 Tr-Prk-Pub-Well-2_2017 0.11847	Tr-Prk-Pub-Well-2_2017	0.1185	2:31	Analyte
86	170815M1_86	---	1701013-01 06302720002600_2017 0.11643	06302720002600_2017	0.1164	2:32	Analyte
87	170815M1_87	---	1701013-02 06302720002900_2017 0.11676	06302720002900_2017	0.1168	2:33	Analyte
88	170815M1_88	---	1701013-03 06302810000600_2017 0.12244	06302810000600_2017	0.1224	2:34	Analyte
89	170815M1_89	---	1701013-04 064A3000000100_2017 0.1166	064A3000000100_2017	0.1166	2:35	Analyte
90	170815M1_90	---	1701013-05 064A3500005900_2017 0.12037	064A3500005900_2017	0.1204	2:36	Analyte
91	170815M1_91	---	1701013-06 5673_F41_2017 0.12174	5673_F41_2017	0.1217	2:37	Analyte
92	170815M1_92	---	1701013-07 06302140002250_2017 0.12148	06302140002250_2017	0.1215	2:38	Analyte
93	170815M1_93	---	IPA	IPA	1.0000	1:48	Blank
94	170815M1_94	X	ST170815M1-6 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
95	170815M1_95	---	IPA	IPA	1.0000	1:48	Blank
96	170815M1_96	---	1701013-08 06302810001010_2017 0.1142	06302810001010_2017	0.1142	2:39	Analyte
97	170815M1_97	---	1701013-09 064P5000001700_2017 0.12061	064P5000001700_2017	0.1206	2:40	Analyte
98	170815M1_98	---	1701013-10 064V5000000200_2017 0.11516	064V5000000200_2017	0.1152	2:41	Analyte
99	170815M1_99	---	1701013-11 LabDI_2017 0.11964	LabDI_2017	0.1196	2:42	Analyte
100	170815M1_100	---	1701022-01 Lagoon (420-124769-1) 0.24019	Lagoon (420-124769-1)	0.2402	2:43	Analyte
101	170815M1_101	---	1701023-01 SB01-20170807 0.11872	SB01-20170807	0.1187	2:44	Analyte
102	170815M1_102	---	1701023-02 EB01-20170807 0.11734	EB01-20170807	0.1173	2:45	Analyte
103	170815M1_103	---	1701023-03 OUA1-MW08-20170807 0.1175	OUA1-MW08-20170807	0.1175	2:46	Analyte
104	170815M1_104	---	1701023-04 OUA1-HS03-20170807 0.11075	OUA1-HS03-20170807	0.1108	2:47	Analyte
105	170815M1_105	---	1701023-05 EB02-20170808 0.11203	EB02-20170808	0.1120	2:48	Analyte
106	170815M1_106	---	IPA	IPA	1.0000	1:48	Blank
107	170815M1_107	X	ST170815M1-7 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
108	170815M1_108	---	IPA	IPA	1.0000	1:48	Blank
109	170815M1_109	---	B7H0086-BLK1 Method Blank 1	Method Blank	1.0000	1:5	Analyte
110	170815M1_110	---	B7H0086-BS1 OPR 1	OPR	1.0000	1:6	Analyte
111	170815M1_111	---	B7H0086-BS2 OPR 1	OPR	1.0000	1:7	Analyte
112	170815M1_112	---	B7H0086-BS3 OPR 1	OPR	1.0000	1:8	Analyte
113	170815M1_113	---	B7H0086-BS4 OPR 1	OPR	1.0000	1:9	Analyte
114	170815M1_114	---	B7H0086-BS5 OPR 1 170004134-01 PFAS in Soil, 4612, Soil 99	OPR PFAS in Soil, 4612, Soil 99	1.0000	1:10	Analyte
115	170815M1_115	---	~~1700813-01RE1 LOD/LOQ Full List DoD 3Q17 1~~	~~LOD/LOQ Full List DoD 3Q17~~	1.0000	1:11	Analyte
116	170815M1_116	---	IPA	IPA	1.0000	1:48	Blank
117	170815M1_117	X	ST170815M1-8 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
118	170815M1_118	---	IPA	IPA	1.0000	1:48	Blank
119	170815M1_119	---	170814_1034_3	170814_1034_3	1.0000	1:12	Blank
120	170815M1_120	---	170814_1034_4	170814_1034_4	1.0000	1:13	Blank

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
121	170815M1_121	---	170814_1034_6	170814_1034_6	1.0000	1:14	Blank
122	170815M1_122	---	IPA	IPA	1.0000	1:48	Blank
123	170815M1_123	---	125ml 1:1 ACN/MeOH	125ml 1:1 ACN/MeOH	1.0000	1:15	Blank
124	170815M1_124	---	125ml MeOH Rinse 1	125ml MeOH Rinse 1	1.0000	1:16	Blank
125	170815M1_125	---	125ml MeOH Rinse 2	125ml MeOH Rinse 2	1.0000	1:17	Blank
126	170815M1_126	---	IPA	IPA	1.0000	1:48	Blank

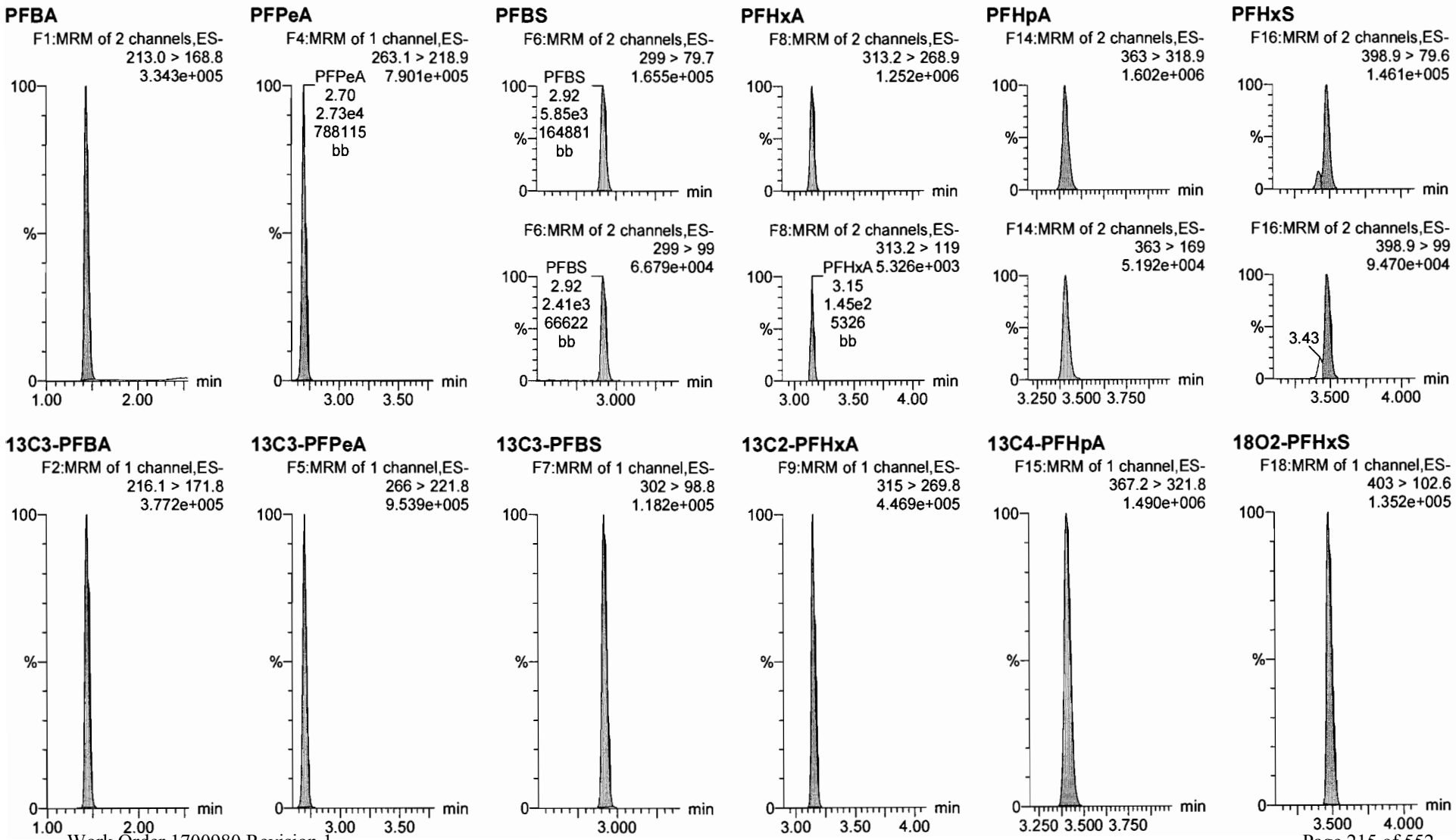
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-24.qld

Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:43 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301



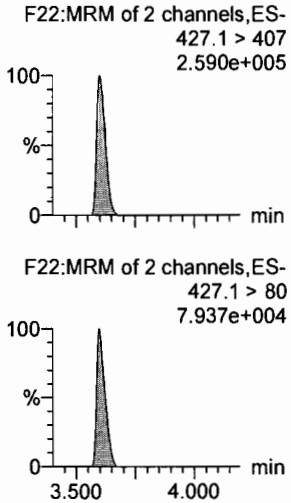
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-24.qld

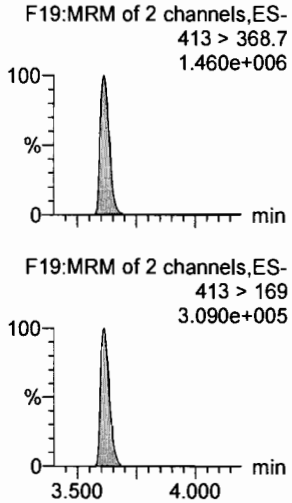
Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:43 Pacific Daylight Time

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301

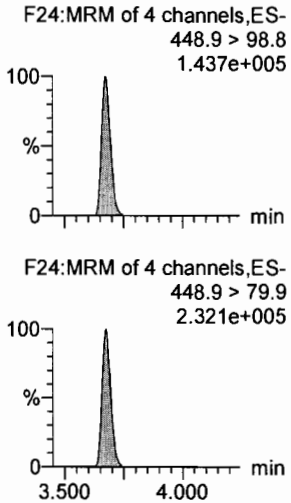
6:2 FTS



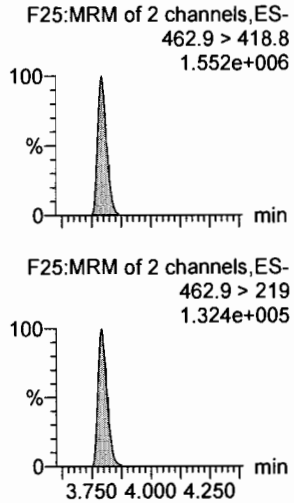
PFOA



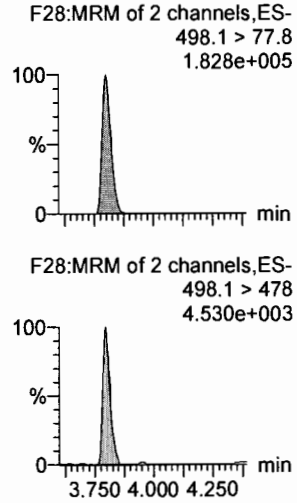
PFHpS



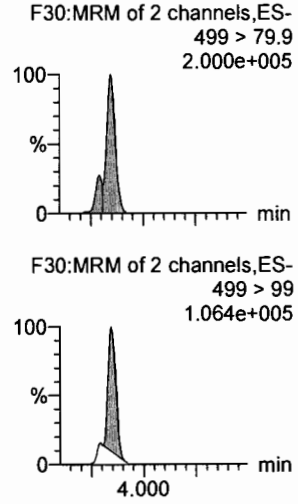
PFNA



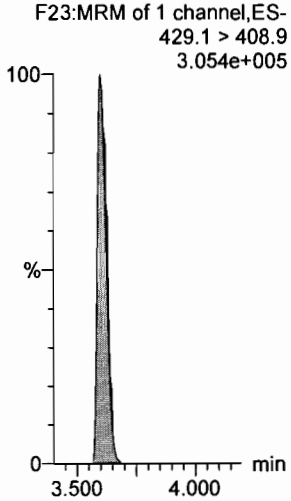
PFOSA



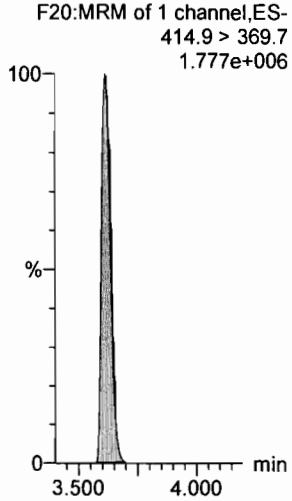
PFOS



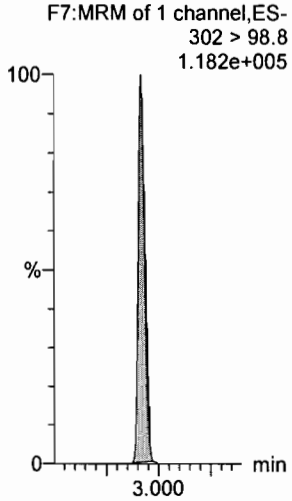
13C2-6:2 FTS



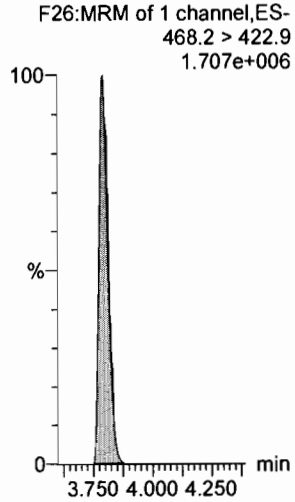
13C2-PFOA



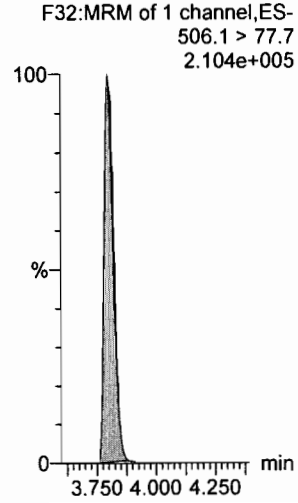
13C3-PFBS



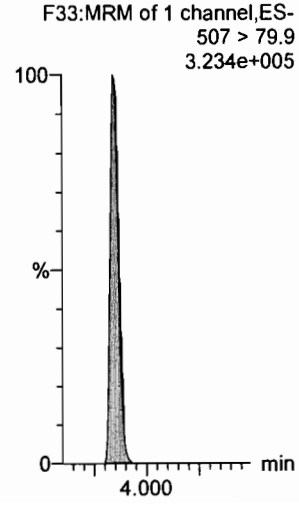
13C5-PFNA



13C8-PFOSA



13C8-PFOS

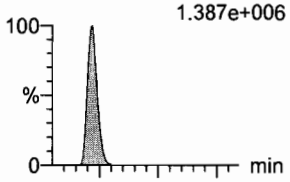


Dataset: U:\Q4.PRO\results\170815M1\170815M1-24.qld

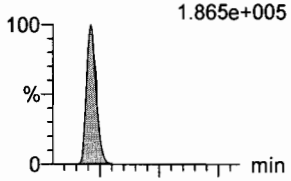
Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:43 Pacific Daylight Time

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301

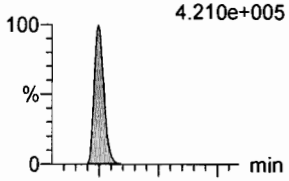
PFDA
F35:MRM of 2 channels,ES-
513 > 468.8
1.387e+006



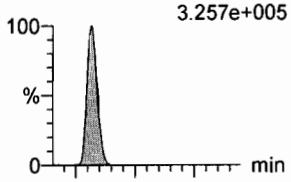
8:2 FTS
F40:MRM of 2 channels,ES-
527 > 506.9
1.865e+005



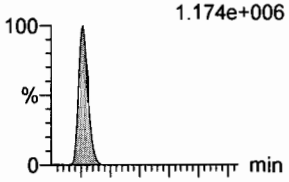
N-MeFOSAA
F45:MRM of 2 channels,ES-
570.1 > 419
4.210e+005



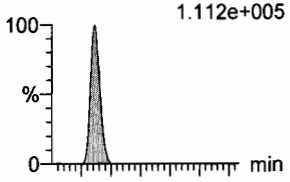
N-EtFOSAA
F48:MRM of 2 channels,ES-
584.2 > 419
3.257e+005



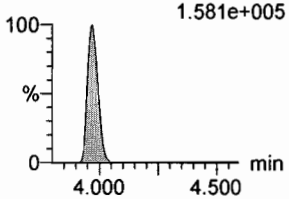
PFUnA
F43:MRM of 2 channels,ES-
562.9 > 518.9
1.174e+006



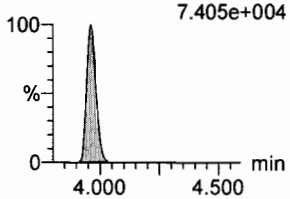
PFDS
F50:MRM of 2 channels,ES-
598.9 > 98.7
1.112e+005



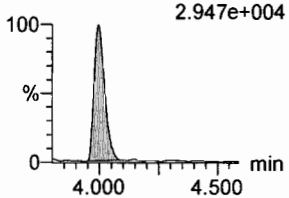
F35:MRM of 2 channels,ES-
513 > 219
1.581e+005



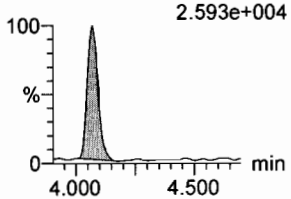
F40:MRM of 2 channels,ES-
527 > 80
7.405e+004



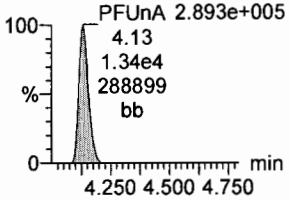
F45:MRM of 2 channels,ES-
570.1 > 483
2.947e+004



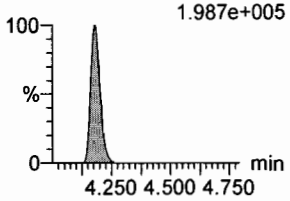
F48:MRM of 2 channels,ES-
584.2 > 483
2.593e+004



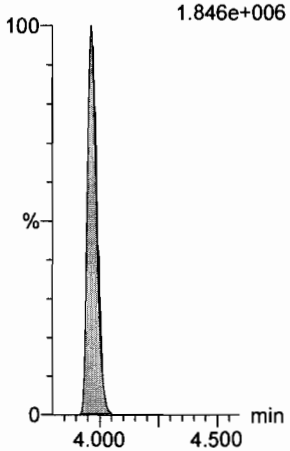
F43:MRM of 2 channels,ES-
562.9 > 269
PFUnA 2.893e+005



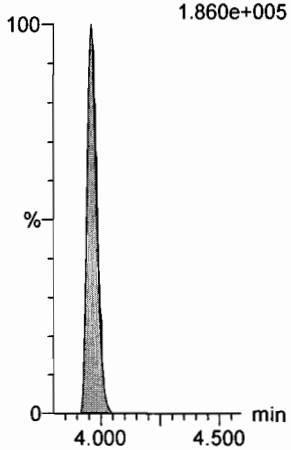
F50:MRM of 2 channels,ES-
598.9 > 80
1.987e+005



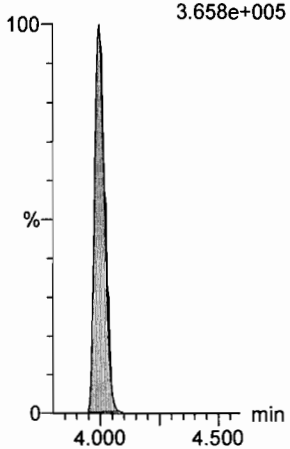
13C2-PFDA
F36:MRM of 1 channel,ES-
515.1 > 469.9
1.846e+006



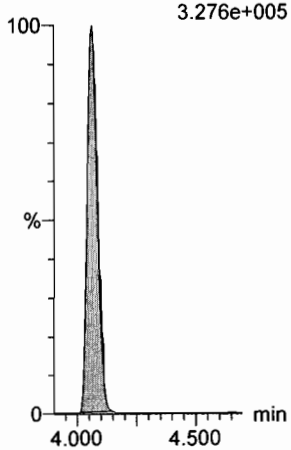
13C2-8:2 FTS
F41:MRM of 1 channel,ES-
529.1 > 508.7
1.860e+005



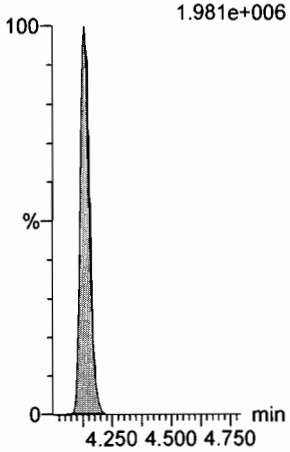
d3-N-MeFOSAA
F47:MRM of 1 channel,ES-
573.3 > 419
3.658e+005



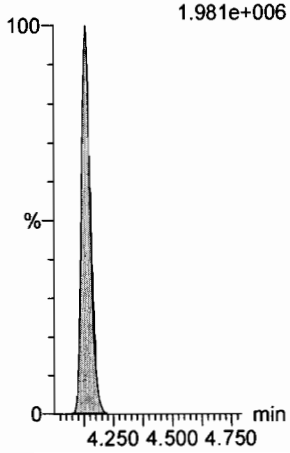
d5-N-EtFOSAA
F49:MRM of 1 channel,ES-
589.3 > 419
3.276e+005



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.981e+006



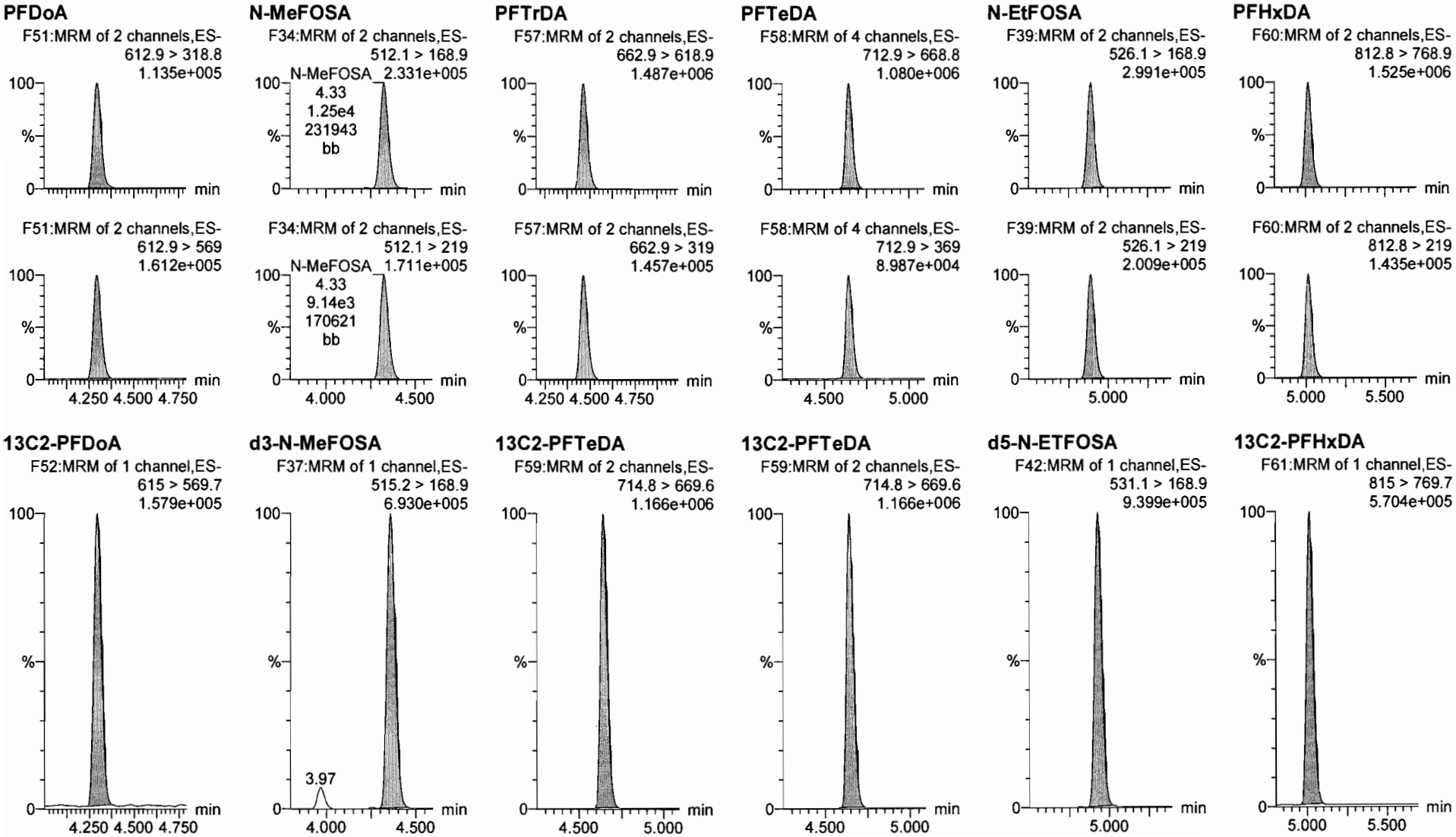
13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.981e+006



Dataset: U:\Q4.PRO\results\170815M1\170815M1-24.qld

Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:43 Pacific Daylight Time

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301



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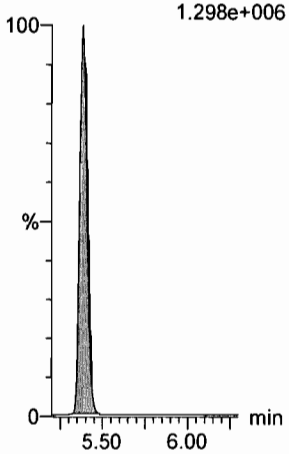
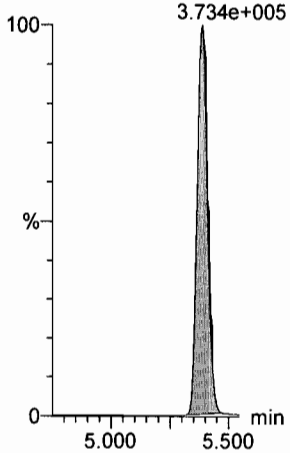
Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:43 Pacific Daylight Time

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301

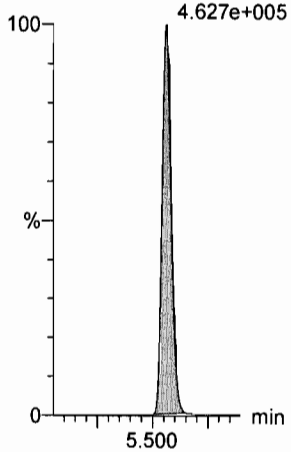
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
1.298e+006



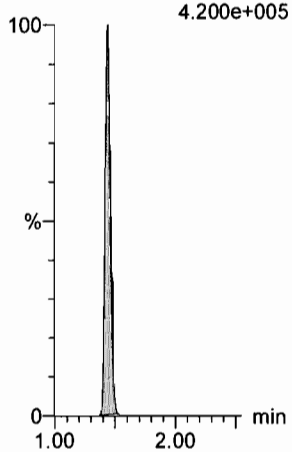
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
3.734e+005



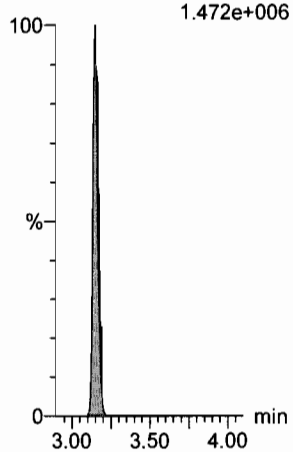
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
4.627e+005



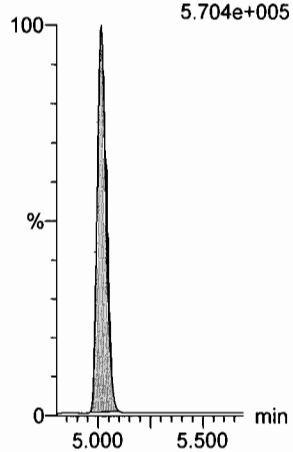
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
4.200e+005



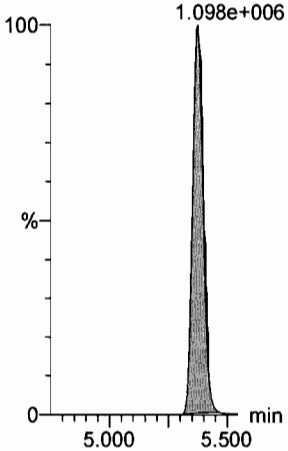
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.472e+006



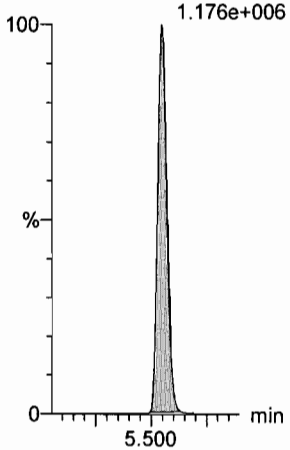
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
5.704e+005



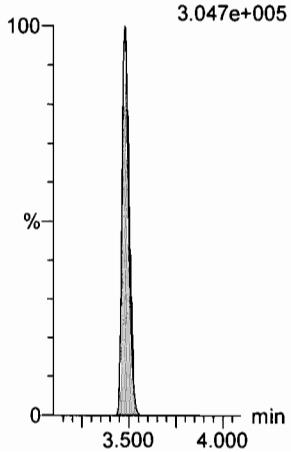
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
1.098e+006



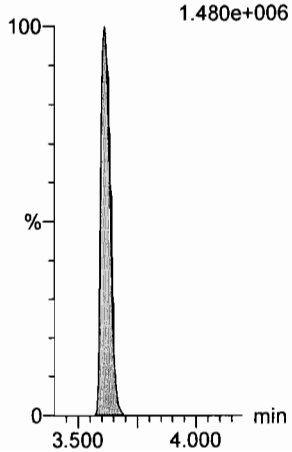
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
1.176e+006



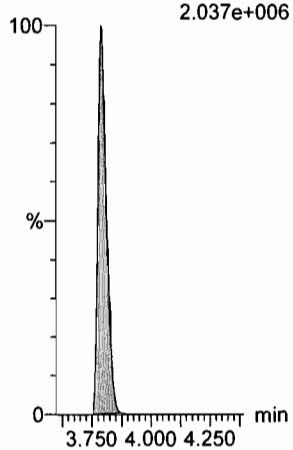
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
3.047e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.480e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
2.037e+006

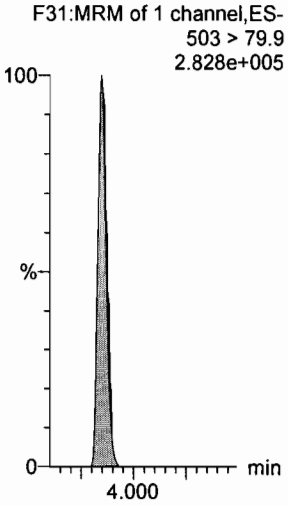


Dataset: U:\Q4.PRO\results\170815M1\170815M1-24.qld

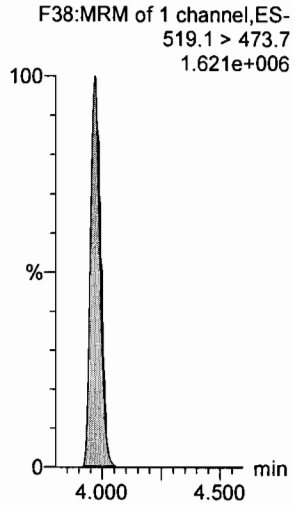
Last Altered: Wednesday, August 16, 2017 09:50:12 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:50:43 Pacific Daylight Time

Name: 170815M1_24, Date: 15-Aug-2017, Time: 17:28:57, ID: ST170815M1-2 PFC CS3 17H1301, Description: PFC CS3 17H1301

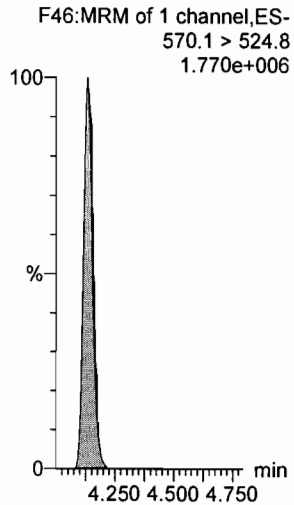
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170815M1\170815M1-42.qld

Last Altered: Wednesday, August 16, 2017 09:52:02 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:52:34 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-16-17.mdb 16 Aug 2017 09:43:48
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301

	#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec	
1	1	PFBA	213.0 > 168.8	17372.230	19614.084		1.000	1.45	10.09	100.93	70-130
2	2	PFPeA	263.1 > 218.9	28752.855	35527.645		1.000	2.72	10.60	106.00	
3	3	PFBS	299 > 79.7	6126.807	4162.814		1.000	2.92	10.64	106.36	
4	4	PFHxA	313.2 > 268.9	46500.266	16813.262		1.000	3.15	10.45	104.51	
5	5	PFHpA	363 > 318.9	65404.547	66652.695		1.000	3.41	10.39	103.90	
6	6	PFHxS	398.9 > 79.6	6957.408	5614.812		1.000	3.48	8.81	88.08	
7	7	6:2 FTS	427.1 > 407	10752.384	12754.169		1.000	3.60	11.32	113.22	
8	8	PFOA	413 > 368.7	70777.891	86244.422		1.000	3.62	10.31	103.09	
9	9	PFHpS	448.9 > 98.8	6093.041	86244.422		1.000	3.68	11.13	111.32	
10	10	PFNA	462.9 > 418.8	69809.664	75952.906		1.000	3.79	11.20	112.01	
11	11	PFOSA	498.1 > 77.8	7606.469	8826.577		1.000	3.80	10.23	102.31	
12	12	PFOS	499 > 79.9	11622.013	13614.604		1.000	3.85	10.04	100.41	
13	13	PFDA	513 > 468.8	73271.844	65734.016		1.000	3.97	12.22	122.17	
14	14	8:2 FTS	527 > 506.9	8810.162	7795.236		1.000	3.96	10.21	102.13	
15	15	N-MeFOSAA	570.1 > 419	19604.828	17350.018		1.000	4.00	9.50	95.04	
16	16	N-EtFOSAA	584.2 > 419	16106.939	17105.484		1.000	4.07	9.77	97.69	
17	17	PFUnA	562.9 > 518.9	55781.629	90936.250		1.000	4.14	9.38	93.84	
18	18	PFDS	598.9 > 98.7	4833.485	90936.250		1.000	4.18	8.01	80.08	
19	19	PFDoA	612.9 > 318.8	5997.638	9290.701		1.000	4.30	9.63	96.29	
20	20	N-MeFOSA	512.1 > 168.9	13087.983	37647.301		1.000	4.34	58.45	116.89	
21	21	PFTrDA	662.9 > 618.9	76432.227	9290.701		1.000	4.47	10.14	101.39	
22	22	PFTeDA	712.9 > 668.8	51460.301	57815.531		1.000	4.65	9.72	97.20	
23	23	N-EtFOSA	526.1 > 168.9	16193.625	50671.680		1.000	4.90	54.08	108.17	
24	24	PFHxDA	812.8 > 768.9	73595.906	26761.512		1.000	5.03	9.48	94.77	
25	25	PFODA	912.8 > 868.8	67878.102	26761.512		1.000	5.40	9.90	98.98	
26	26	N-MeFOSE	616.1 > 58.9	19431.281	58117.441		1.000	5.39	53.87	107.74	
27	27	N-EtFOSE	630.1 > 58.9	22165.346	57058.199		1.000	5.57	54.86	109.72	
28	28	13C3-PFBA	216.1 > 171.8	19614.084	21500.596	0.906	1.000	1.45	12.59	100.71	50-150
29	29	13C3-PFPeA	266 > 221.8	35527.645	57062.938	0.284	1.000	2.72	10.97	87.72	
30	30	13C3-PFBS	302 > 98.8	4162.814	57062.938	0.033	1.000	2.92	11.09	88.75	
31	31	13C2-PFHxA	315 > 269.8	16813.262	57062.938	0.304	1.000	3.15	4.85	97.04	

AM 8/16/17

Dataset: U:\Q4.PRO\results\170815M1\170815M1-42.qld

Last Altered: Wednesday, August 16, 2017 09:52:02 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:52:34 Pacific Daylight Time

Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301

	#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	66652.695	57062.938	0.384	1.000	3.41	15.21	121.65
33	33	18O2-PFHxS	403 > 102.6	5614.812	13246.498	0.417	1.000	3.48	12.70	101.62
34	34	13C2-6:2 FTS	429.1 > 408.9	12754.169	77958.547	0.202	1.000	3.60	10.14	81.10
35	35	13C2-PFOA	414.9 > 369.7	86244.422	77958.547	1.132	1.000	3.61	12.21	97.71
36	36	13C5-PFNA	468.2 > 422.9	75952.906	79797.203	0.946	1.000	3.79	12.58	100.61
37	37	13C8-PFOSA	506.1 > 77.7	8826.577	85958.680	0.119	1.000	3.80	10.75	85.99
38	38	13C8-PFOS	507 > 79.9	13614.604	13268.856	1.040	1.000	3.85	12.33	98.67
39	39	13C2-PFDA	515.1 > 469.9	65734.016	79258.961	0.971	1.000	3.97	10.68	85.43
40	40	13C2-8:2 FTS	529.1 > 508.7	7795.236	79258.961	0.140	1.000	3.96	8.76	70.11
41	41	d3-N-MeFOSAA	573.3 > 419	17350.018	85958.680	0.018	1.000	4.00	141.83	87.28
42	42	d5-N-EtFOSAA	589.3 > 419	17105.484	85958.680	0.018	1.000	4.07	136.44	83.96
43	43	13C2-PFUnA	565 > 519.8	90936.250	85958.680	1.085	1.000	4.14	12.19	97.49
44	44	13C2-PFDoA	615 > 569.7	9290.701	85958.680	0.123	1.000	4.30	10.97	87.78
45	45	d3-N-MeFOSA	515.2 > 168.9	37647.301	85958.680	0.043	1.000	4.37	126.53	84.35
46	46	13C2-PFTeDA	714.8 > 669.6	57815.531	85958.680	0.798	1.000	4.65	10.54	84.31
47	47	d5-N-ETFOSA	531.1 > 168.9	50671.680	85958.680	0.056	1.000	4.94	132.34	88.23
48	48	13C2-PFHxDA	815 > 769.7	26761.512	85958.680	0.926	1.000	5.03	4.20	84.01
49	49	d7-N-MeFOSE	623.1 > 58.9	58117.441	85958.680	0.059	1.000	5.38	142.17	94.78
50	50	d9-N-EtFOSE	639.2 > 58.8	57058.199	85958.680	0.059	1.000	5.55	139.50	93.00
51	51	13C4-PFBA	217 > 171.8	21500.596	21500.596	1.000	1.000	1.45	12.50	100.00
52	52	13C5-PFHxA	318 > 272.9	57062.938	57062.938	1.000	1.000	3.15	5.00	100.00
53	53	13C3-PFHxS	401.9 > 79.9	13246.498	13246.498	1.000	1.000	3.48	12.50	100.00
54	54	13C8-PFOA	421.3 > 376	77958.547	77958.547	1.000	1.000	3.61	12.50	100.00
55	55	13C9-PFNA	472.2 > 426.9	79797.203	79797.203	1.000	1.000	3.80	12.50	100.00
56	56	13C4-PFOS	503 > 79.9	13268.856	13268.856	1.000	1.000	3.85	12.50	100.00
57	57	13C6-PFDA	519.1 > 473.7	79258.961	79258.961	1.000	1.000	3.97	12.50	100.00
58	58	13C7-PFUnA	570.1 > 524.8	85958.680	85958.680	1.000	1.000	4.14	12.50	100.00

50-150

Sample List Report **MassLynx MassLynx V4.1 SCN945 SCN960**

Sample List: U:\Q4.PRO\SampleDB\170815M1.SPL
Last Modified: Tuesday, August 15, 2017 13:50:57 Pacific Daylight Time
Printed: Tuesday, August 15, 2017 13:51:10 Pacific Daylight Time Page Position (1, 1)

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
1	170815M1_1	---	IPA	IPA	1.0000	1:48	Blank
2	170815M1_2	X	ST170815M1-1 PFC CS0 17H1302	PFC CS0 17H1302	1.0000	1:1	Analyte
3	170815M1_3	---	IPA	IPA	1.0000	1:48	Blank
4	170815M1_4	-	B7H0078-BS1 OPR 0.125	OPR	0.1250	1:15	Analyte
5	170815M1_5	---	IPA	IPA	1.0000	1:48	Blank
6	170815M1_6	-	B7H0078-BLK1 Method Blank 0.125	Method Blank	0.1250	1:16	Analyte
7	170815M1_7	-	B7H0078-MS1 Matrix Spike 0.125	Matrix Spike	0.1250	1:17	Analyte
8	170815M1_8	-	B7H0078-MSD1 Matrix Spike Dup 0.125	Matrix Spike Dup	0.1250	1:18	Analyte
9	170815M1_9	-	1700907-04RE1@20 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:33	Analyte
10	170815M1_10	---	IPA	IPA	1.0000	1:48	Blank
11	170815M1_11	-	1700862-01RE1 WS 252 0.00025	WS 252	0.0003	1:19	Analyte
12	170815M1_12	-	1700907-04RE1 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:20	Analyte
13	170815M1_13	---	IPA	IPA	1.0000	1:48	Blank
14	170815M1_14	-	1701031-01 BANGR-03-GW-TW03-080817 0.125	BANGR-03-GW-TW03-080817	0.1250	1:21	Analyte
15	170815M1_15	-	1701031-02 BANGR-05-GW-TW05-080817 0.125	BANGR-05-GW-TW05-080817	0.1250	1:22	Analyte
16	170815M1_16	-	1701031-03 BANGR-06-GW-TW06-080917 0.125	BANGR-06-GW-TW06-080917	0.1250	1:23	Analyte
17	170815M1_17	-	1701031-04 BANGR-12-GW-TW12-080817 0.125	BANGR-12-GW-TW12-080817	0.1250	1:24	Analyte
18	170815M1_18	-	1701034-01 SB01-20170808 0.125	SB01-20170808	0.1250	1:25	Analyte
19	170815M1_19	-	1701034-02 Site1-GW-01TW03-20170808 0.125	Site1-GW-01TW03-20170808	0.1250	1:26	Analyte
20	170815M1_20	-	1701034-03 Site1-GW-01TW01-20170808 0.125	Site1-GW-01TW01-20170808	0.1250	1:27	Analyte
21	170815M1_21	-	1701034-04 Site1-GW-FD01-20170808 0.125	Site1-GW-FD01-20170808	0.1250	1:28	Analyte
22	170815M1_22	-	1701034-05 EB01-20170808 0.125	EB01-20170808	0.1250	1:29	Analyte
23	170815M1_23	---	IPA	IPA	1.0000	1:48	Blank
24	170815M1_24	X	ST170815M1-2 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
25	170815M1_25	---	IPA	IPA	1.0000	1:48	Blank
26	170815M1_26	-	1701034-06 Site1-GW-01TW02-20170808 0.125	Site1-GW-01TW02-20170808	0.1250	1:30	Analyte
27	170815M1_27	-	1701038-01 OC-PFC-MW04R-0817 0.125	OC-PFC-MW04R-0817	0.1250	1:31	Analyte
28	170815M1_28	-	1701038-02 OC-PFC-EB081017 0.125	OC-PFC-EB081017	0.1250	1:32	Analyte
29	170815M1_29	---	IPA	IPA	1.0000	1:48	Blank
30	170815M1_30	X	ST170815M1-3 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
31	170815M1_31	---	IPA	IPA	1.0000	1:48	Blank

(A) Re-injected because IIS AREA was at the 1st time. am 8/15/17
(B) Instrument paused to adjust windows. am 8/15/17
(C) Instrument paused to load sample on tray. am 8/15/17
(D) Samples checked, see corrected.

am 8/15/17

Sample List Report **MassLynx MassLynx V4.1 SCN945 SCN960**

Sample List: U:\Q4.PRO\SampleDB\170815M1.SPL
Last Modified: Tuesday, August 15, 2017 17:54:39 Pacific Daylight Time
Printed: Tuesday, August 15, 2017 17:55:26 Pacific Daylight Time

Page Position (1, 1)

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
1	170815M1_1	---	IPA	IPA	1.0000	1:48	Blank
2	170815M1_2	X	ST170815M1-1 PFC CS0 17H1302	PFC CS0 17H1302	1.0000	1:1	Analyte
3	170815M1_3	---	IPA	IPA	1.0000	1:48	Blank
4	170815M1_4	-	B7H0078-BS1 OPR 0.125	OPR	0.1250	1:15	Analyte
5	170815M1_5	---	IPA	IPA	1.0000	1:48	Blank
6	170815M1_6	-	B7H0078-BLK1 Method Blank 0.125	Method Blank	0.1250	1:16	Analyte
7	170815M1_7	-	B7H0078-MS1 Matrix Spike 0.125	Matrix Spike	0.1250	1:17	Analyte
8	170815M1_8	-	B7H0078-MSD1 Matrix Spike Dup 0.125	Matrix Spike Dup	0.1250	1:18	Analyte
9	170815M1_9	-	1700907-04RE1@20 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:33	Analyte
10	170815M1_10	---	IPA	IPA	1.0000	1:48	Blank
11	170815M1_11	-	1700862-01RE1 WS 252 0.00025	WS 252	0.0003	1:19	Analyte
12	170815M1_12	-	1700907-04RE1 AT028-MW17-06-071717-1300 0.12053	AT028-MW17-06-071717-1300	0.1205	1:20	Analyte
13	170815M1_13	---	IPA	IPA	1.0000	1:48	Blank
14	170815M1_14	-	1701031-01 BANGR-03-GW-TW03-080817 0.125	BANGR-03-GW-TW03-080817	0.1250	1:21	Analyte
15	170815M1_15	-	1701031-02 BANGR-05-GW-TW05-080817 0.125	BANGR-05-GW-TW05-080817	0.1250	1:22	Analyte
16	170815M1_16	-	1701031-03 BANGR-06-GW-TW06-080917 0.125	BANGR-06-GW-TW06-080917	0.1250	1:23	Analyte
17	170815M1_17	-	1701031-04 BANGR-12-GW-TW12-080817 0.125	BANGR-12-GW-TW12-080817	0.1250	1:24	Analyte
18	170815M1_18	-	1701034-01 SB01-20170808 0.125	SB01-20170808	0.1250	1:25	Analyte
19	170815M1_19	-	1701034-02 Site1-GW-01TW03-20170808 0.125	Site1-GW-01TW03-20170808	0.1250	1:26	Analyte
20	170815M1_20	-	1701034-03 Site1-GW-01TW01-20170808 0.125	Site1-GW-01TW01-20170808	0.1250	1:27	Analyte
21	170815M1_21	-	1701034-04 Site1-GW-FD01-20170808 0.125	Site1-GW-FD01-20170808	0.1250	1:28	Analyte
22	170815M1_22	-	1701034-05 EB01-20170808 0.125	EB01-20170808	0.1250	1:29	Analyte
23	170815M1_23	---	(E) IPA	IPA	1.0000	1:48	Blank
24	170815M1_24	X	ST170815M1-2 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
25	170815M1_25	---	IPA	IPA	1.0000	1:48	Blank
26	170815M1_26	-	1701034-06 Site1-GW-01TW02-20170808 0.125	Site1-GW-01TW02-20170808	0.1250	1:30	Analyte
27	170815M1_27	-	1701038-01 OC-PFC-MW04R-0817 0.125	OC-PFC-MW04R-0817	0.1250	1:31	Analyte
28	170815M1_28	-	1701038-02 OC-PFC-EB081017 0.125	OC-PFC-EB081017	0.1250	1:32	Analyte
29	170815M1_29	---	B7H0035-BS1 OPR 0.125	OPR	0.1250	1:33	Analyte
30	170815M1_30	---	IPA	IPA	1.0000	1:48	Blank
31	170815M1_31	---	B7H0035-BLK1 Method Blank 0.125	Method Blank	0.1250	1:34	Analyte
32	170815M1_32	---	B7H0035-MS1 Matrix Spike 0.11511	Matrix Spike	0.1151	1:35	Analyte
33	170815M1_33	---	B7H0035-MSD1 Matrix Spike Dup 0.11806	Matrix Spike Dup	0.1181	1:36	Analyte
34	170815M1_34	---	1700980-01 IR09MW61A-080217 0.10744	IR09MW61A-080217	0.1074	1:37	Analyte
35	170815M1_35	---	1700980-02 IR09MW62A-080217 0.11271	IR09MW62A-080217	0.1127	1:38	Analyte
36	170815M1_36	---	IPA	IPA	0.1127	1:39	Analyte
37	170815M1_37	---	1700980-03 IR09P040A-080217 0.11721	IR09P040A-080217	0.1172	1:40	Analyte
38	170815M1_38	---	1700980-04 IR10MW28A-080217 0.1175	IR10MW28A-080217	0.1175	1:41	Analyte
39	170815M1_39	---	1700980-05 080217-FB-01 0.12184	080217-FB-01	0.1218	1:42	Analyte
40	170815M1_40	---	1700980-06 IR10MW13A1-080217 0.12103	IR10MW13A1-080217	0.1210	1:43	Analyte

(E) instrument paused to load samples am 8/15/17 am 8/15/17

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
41	170815M1_41	---	IPA	IPA	1.0000	1:48	Blank
42	170815M1_42	X	ST170815M1-3 PFC CS3 17H1301	PFC CS3 17H1301	1.0000	1:2	Analyte
43	170815M1_43	---	IPA	IPA	1.0000	1:48	Blank
44	170815M1_44	---	1700980-07 IR10MW31A1-080217 0.12279	IR10MW31A1-080217	0.1228	1:44	Analyte
45	170815M1_45	---	1700980-08 IR10MW31A1-080217-D 0.11964	IR10MW31A1-080217-D	0.1196	1:45	Analyte
46	170815M1_46	---	1700980-09 080217-ER-01 0.11911	080217-ER-01	0.1191	1:46	Analyte
47	170815M1_47	---	1700980-10 080217-SB-01 0.11909	080217-SB-01	0.1191	1:47	Analyte
48	170815M1_48	---	IPA	IPA	0.1093	2:1	Analyte
49	170815M1_49	---	B7H0066-BS1 OPR 0.125	OPR	0.1250	2:2	Analyte
50	170815M1_50	---	B7H0069-BS1 OPR 0.25	OPR	0.2500	2:3	Analyte
51	170815M1_51	---	IPA	IPA	1.0000	1:48	Blank
52	170815M1_52	---	B7H0066-BLK1 Method Blank 0.125	Method Blank	0.1250	2:4	Analyte
53	170815M1_53	---	B7H0069-BLK1 Method Blank 0.25	Method Blank	0.2500	2:5	Analyte
54	170815M1_54	---	B7H0066-MS1 Matrix Spike 0.11555	Matrix Spike	0.1156	2:6	Analyte
55	170815M1_55	---	B7H0066-MSD1 Matrix Spike Dup 0.11567	Matrix Spike Dup	0.1157	2:7	Analyte
56	170815M1_56	---	B7H0066-MS2 Matrix Spike 0.11836	Matrix Spike	0.1184	2:8	Analyte
57	170815M1_57	---	B7H0066-MSD2 Matrix Spike Dup 0.11729	Matrix Spike Dup	0.1173	2:9	Analyte
58	170815M1_58	---	B7H0069-MS1 Matrix Spike 0.1193	Matrix Spike	0.1193	2:10	Analyte
59	170815M1_59	---	B7H0069-MSD1 Matrix Spike Dup 0.11433	Matrix Spike Dup	0.1143	2:11	Analyte
60	170815M1_60	---	1701011-01 06302140000900_2017 0.11617	06302140000900_2017	0.1162	2:12	Analyte
61	170815M1_61	---	1701011-02 06302140002050_2017 0.11859	06302140002050_2017	0.1186	2:13	Analyte
62	170815M1_62	---	1701011-03 06302140002100_2017 0.11904	06302140002100_2017	0.1190	2:14	Analyte
63	170815M1_63	---	1701011-04 06302810002200_2017 0.11477	06302810002200_2017	0.1148	2:15	Analyte
64	170815M1_64	---	1701011-05 064W5000002700_2017 0.11543	064W5000002700_2017	0.1154	2:16	Analyte
65	170815M1_65	---	1701011-06 FD-01 0.12004	FD-01	0.1200	2:17	Analyte
66	170815M1_66	---	1701011-07 FD-02 0.11727	FD-02	0.1173	2:18	Analyte
67	170815M1_67	---	IPA	IPA	1.0000	1:48	Blank
68	170815M1_68	X	ST170815M1-4 PFC CS0 17H1504	PFC CS0 17H1504	1.0000	1:3	Analyte
69	170815M1_69	---	IPA	IPA	1.0000	1:48	Blank
70	170815M1_70	---	1701011-08 06302130001200_2017 0.12215	06302130001200_2017	0.1221	2:19	Analyte
71	170815M1_71	---	1701011-09 06302130001400A_2017 0.12023	06302130001400A_2017	0.1202	2:20	Analyte
72	170815M1_72	---	1701011-10 06302810001500_B_2017 0.11695	06302810001500_B_2017	0.1170	2:21	Analyte
73	170815M1_73	---	1701011-11 6302840007000_2017 0.11166	6302840007000_2017	0.1117	2:22	Analyte
74	170815M1_74	---	1701011-12 FD-03 0.11337	FD-03	0.1134	2:23	Analyte
75	170815M1_75	---	1701011-13 FD-04 0.12051	FD-04	0.1205	2:24	Analyte
76	170815M1_76	---	1701011-14 FD-05 0.11946	FD-05	0.1195	2:25	Analyte
77	170815M1_77	---	1701011-15 06302720002300_2017 0.11523	06302720002300_2017	0.1152	2:26	Analyte
78	170815M1_78	---	1701011-16 06302720002500_2017-C 0.10939	06302720002500_2017-C	0.1094	2:27	Analyte
79	170815M1_79	---	1701011-17 06302720002800_2017 0.11111	06302720002800_2017	0.1111	2:28	Analyte
80	170815M1_80	---	IPA	IPA	1.0000	1:48	Blank

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
81	170815M1_81	X	ST170815M1-5 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
82	170815M1_82	---	IPA	IPA	1.0000	1:48	Blank
83	170815M1_83	---	1701011-18 06302810001500_A_2017 0.11512	06302810001500_A_2017	0.1151	2:29	Analyte
84	170815M1_84	---	1701011-19 Tr-Prk-Pub-Well-1_2017 0.11801	Tr-Prk-Pub-Well-1_2017	0.1180	2:30	Analyte
85	170815M1_85	---	1701011-20 Tr-Prk-Pub-Well-2_2017 0.11847	Tr-Prk-Pub-Well-2_2017	0.1185	2:31	Analyte
86	170815M1_86	---	1701013-01 06302720002600_2017 0.11643	06302720002600_2017	0.1164	2:32	Analyte
87	170815M1_87	---	1701013-02 06302720002900_2017 0.11676	06302720002900_2017	0.1168	2:33	Analyte
88	170815M1_88	---	1701013-03 06302810000600_2017 0.12244	06302810000600_2017	0.1224	2:34	Analyte
89	170815M1_89	---	1701013-04 064A3000000100_2017 0.1166	064A3000000100_2017	0.1166	2:35	Analyte
90	170815M1_90	---	1701013-05 064A3500005900_2017 0.12037	064A3500005900_2017	0.1204	2:36	Analyte
91	170815M1_91	---	1701013-06 5673_F41_2017 0.12174	5673_F41_2017	0.1217	2:37	Analyte
92	170815M1_92	---	1701013-07 06302140002250_2017 0.12148	06302140002250_2017	0.1215	2:38	Analyte
93	170815M1_93	---	IPA	IPA	1.0000	1:48	Blank
94	170815M1_94	X	ST170815M1-6 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
95	170815M1_95	---	IPA	IPA	1.0000	1:48	Blank
96	170815M1_96	---	1701013-08 06302810001010_2017 0.1142	06302810001010_2017	0.1142	2:39	Analyte
97	170815M1_97	---	1701013-09 064P5000001700_2017 0.12061	064P5000001700_2017	0.1206	2:40	Analyte
98	170815M1_98	---	1701013-10 064V5000000200_2017 0.11516	064V5000000200_2017	0.1152	2:41	Analyte
99	170815M1_99	---	1701013-11 LabDI_2017 0.11964	LabDI_2017	0.1196	2:42	Analyte
100	170815M1_100	---	1701022-01 Lagoon (420-124769-1) 0.24019	Lagoon (420-124769-1)	0.2402	2:43	Analyte
101	170815M1_101	---	1701023-01 SB01-20170807 0.11872	SB01-20170807	0.1187	2:44	Analyte
102	170815M1_102	---	1701023-02 EB01-20170807 0.11734	EB01-20170807	0.1173	2:45	Analyte
103	170815M1_103	---	1701023-03 OUA1-MW08-20170807 0.1175	OUA1-MW08-20170807	0.1175	2:46	Analyte
104	170815M1_104	---	1701023-04 OUA1-HS03-20170807 0.11075	OUA1-HS03-20170807	0.1108	2:47	Analyte
105	170815M1_105	---	1701023-05 EB02-20170808 0.11203	EB02-20170808	0.1120	2:48	Analyte
106	170815M1_106	---	IPA	IPA	1.0000	1:48	Blank
107	170815M1_107	X	ST170815M1-7 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
108	170815M1_108	---	IPA	IPA	1.0000	1:48	Blank
109	170815M1_109	---	B7H0086-BLK1 Method Blank 1	Method Blank	1.0000	1:5	Analyte
110	170815M1_110	---	B7H0086-BS1 OPR 1	OPR	1.0000	1:6	Analyte
111	170815M1_111	---	B7H0086-BS2 OPR 1	OPR	1.0000	1:7	Analyte
112	170815M1_112	---	B7H0086-BS3 OPR 1	OPR	1.0000	1:8	Analyte
113	170815M1_113	---	B7H0086-BS4 OPR 1	OPR	1.0000	1:9	Analyte
114	170815M1_114	---	B7H0086-BS5 OPR 1 1700134-01 PFAS in Soil, 4L2, Soil 99	OPR PFAS in Soil, 4L2, Soil 99	1.0000	1:10	Analyte
115	170815M1_115	---	~~1700813-01RE1 LOD/LOQ Full List DoD 3Q17 1~~	~~LOD/LOQ Full List DoD 3Q17~~	1.0000	1:11	Analyte
116	170815M1_116	---	IPA	IPA	1.0000	1:48	Blank
117	170815M1_117	X	ST170815M1-8 PFC CS3 17H1505	PFC CS3 17H1505	1.0000	1:4	Analyte
118	170815M1_118	---	IPA	IPA	1.0000	1:48	Blank
119	170815M1_119	---	170814_1034_3	170814_1034_3	1.0000	1:12	Blank
120	170815M1_120	---	170814_1034_4	170814_1034_4	1.0000	1:13	Blank

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
121	170815M1_121	---	170814_1034_6	170814_1034_6	1.0000	1:14	Blank
122	170815M1_122	---	IPA	IPA	1.0000	1:48	Blank
123	170815M1_123	---	125ml 1:1 ACN/MeOH	125ml 1:1 ACN/MeOH	1.0000	1:15	Blank
124	170815M1_124	---	125ml MeOH Rinse 1	125ml MeOH Rinse 1	1.0000	1:16	Blank
125	170815M1_125	---	125ml MeOH Rinse 2	125ml MeOH Rinse 2	1.0000	1:17	Blank
126	170815M1_126	---	IPA	IPA	1.0000	1:48	Blank

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Dataset: U:\Q4.PRO\results\170815M1\170815M1-42.qld

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

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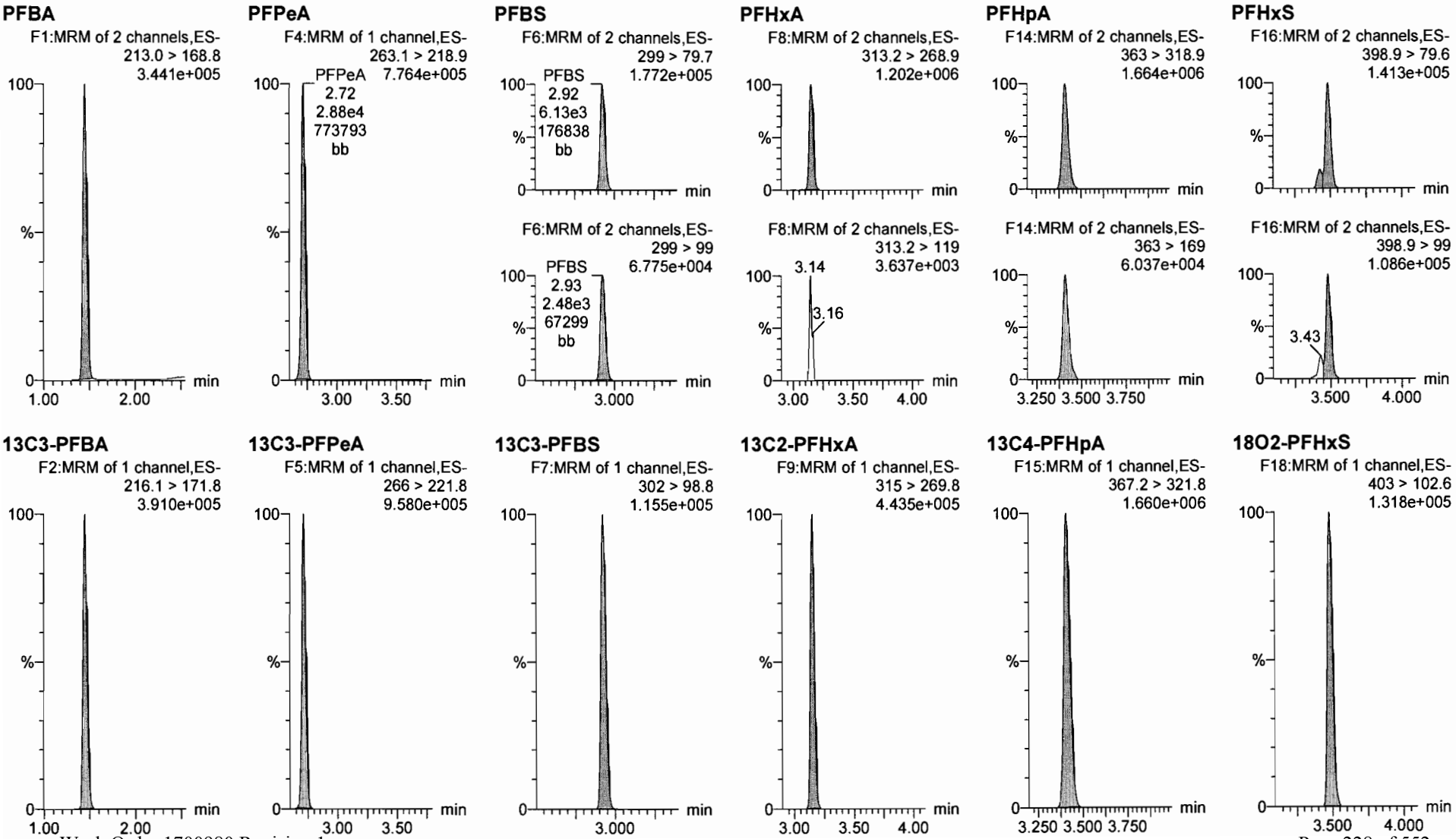

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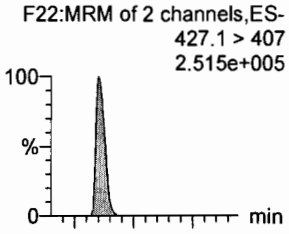
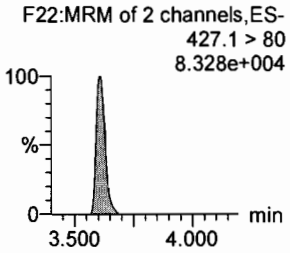
Last Altered: Wednesday, August 16, 2017 09:52:02 Pacific Daylight Time
Printed: Wednesday, August 16, 2017 09:52:23 Pacific Daylight Time

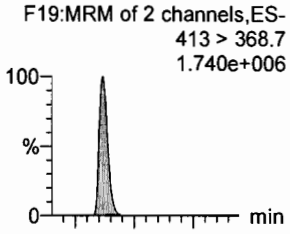
Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301

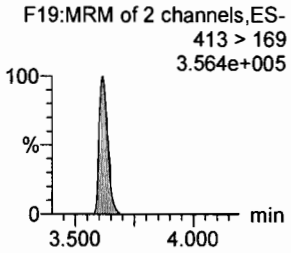
6:2 FTS



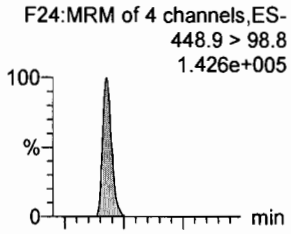


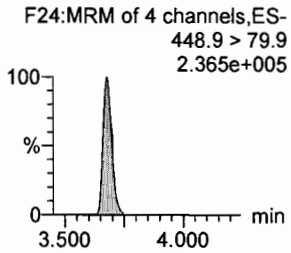
PFOA





PFHpS





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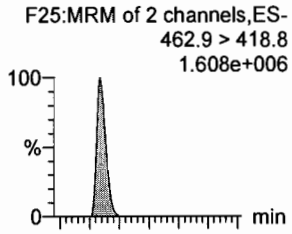

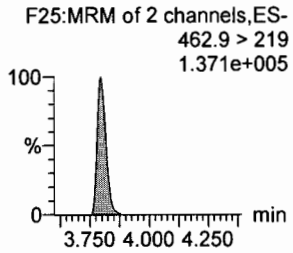

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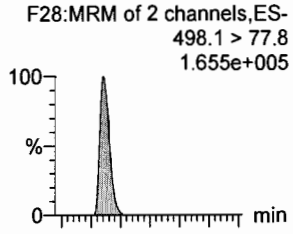

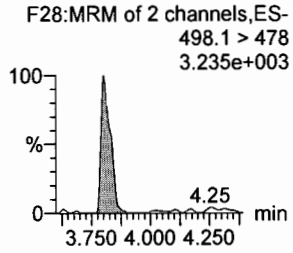

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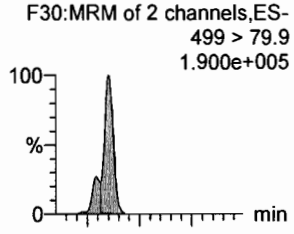

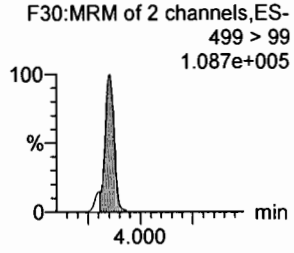

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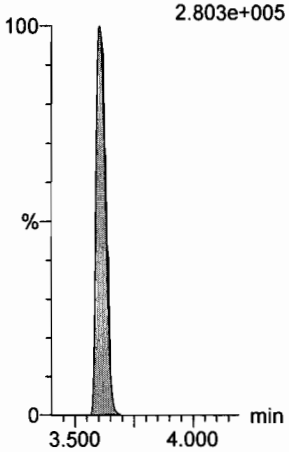
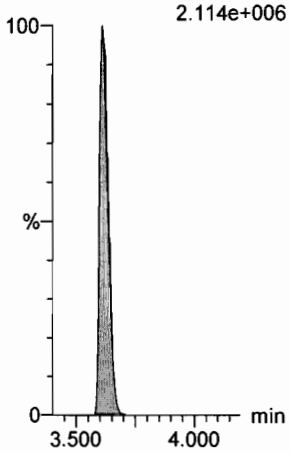
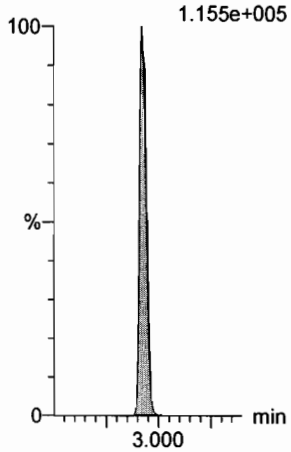


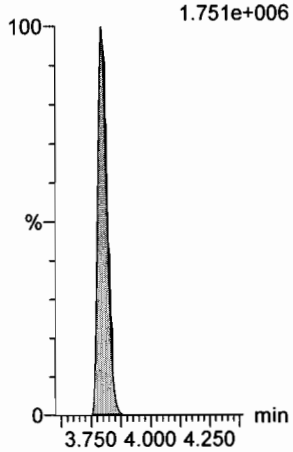
13C2-PFOA



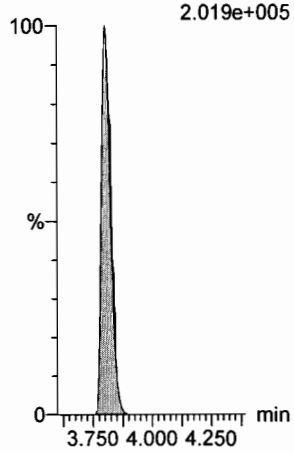
13C3-PFBS



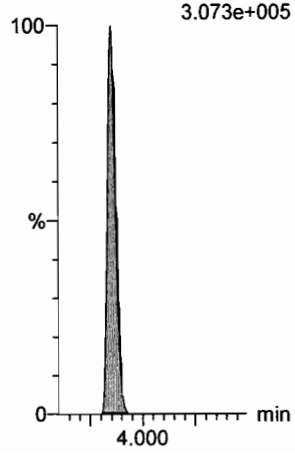
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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Last Altered: Wednesday, August 16, 2017 09:52:02 Pacific Daylight Time
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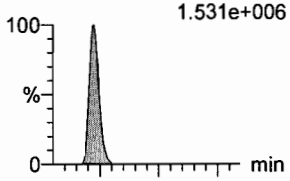
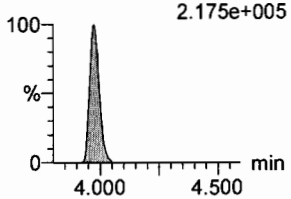
Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301

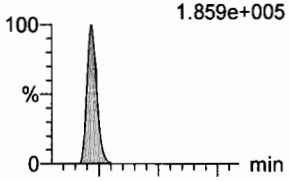
PFDA
F35:MRM of 2 channels,ES-
513 > 468.8
1.531e+006



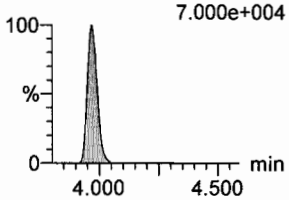
F35:MRM of 2 channels,ES-
513 > 219
2.175e+005



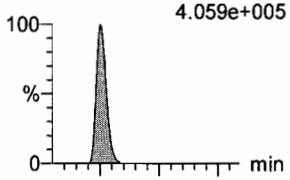
8:2 FTS
F40:MRM of 2 channels,ES-
527 > 506.9
1.859e+005



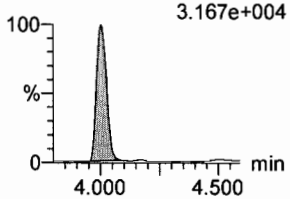
F40:MRM of 2 channels,ES-
527 > 80
7.000e+004



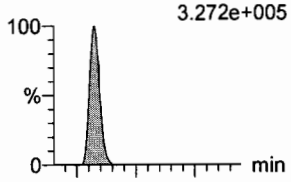
N-MeFOSAA
F45:MRM of 2 channels,ES-
570.1 > 419
4.059e+005



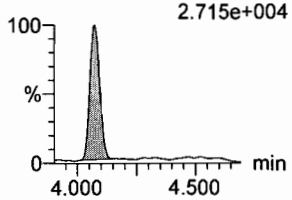
F45:MRM of 2 channels,ES-
570.1 > 483
3.167e+004



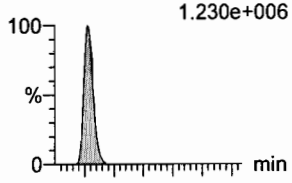
N-EtFOSAA
F48:MRM of 2 channels,ES-
584.2 > 419
3.272e+005



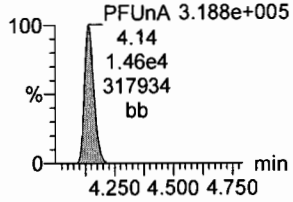
F48:MRM of 2 channels,ES-
584.2 > 483
2.715e+004



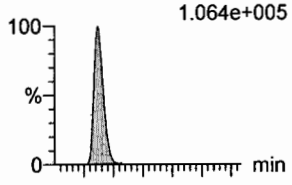
PFUnA
F43:MRM of 2 channels,ES-
562.9 > 518.9
1.230e+006



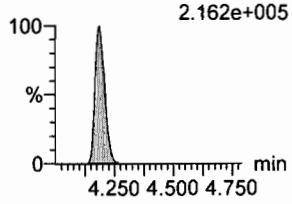
F43:MRM of 2 channels,ES-
562.9 > 269
PFUnA 3.188e+005
4.14
1.46e4
317934
bb



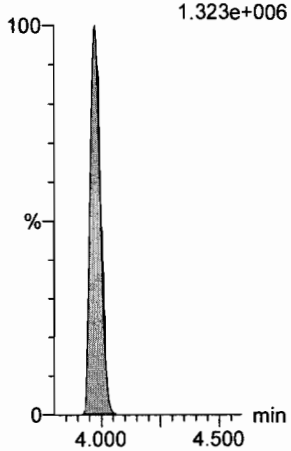
PFDS
F50:MRM of 2 channels,ES-
598.9 > 98.7
1.064e+005



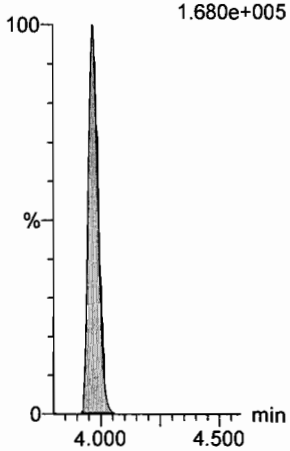
F50:MRM of 2 channels,ES-
598.9 > 80
2.162e+005



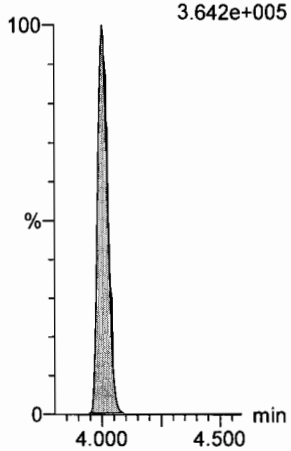
13C2-PFDA
F36:MRM of 1 channel,ES-
515.1 > 469.9
1.323e+006



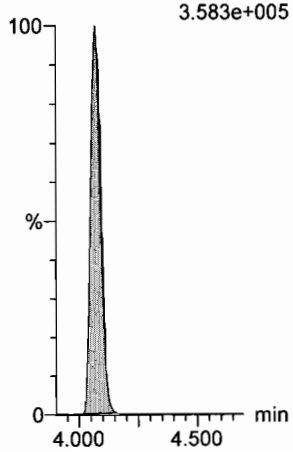
13C2-8:2 FTS
F41:MRM of 1 channel,ES-
529.1 > 508.7
1.680e+005



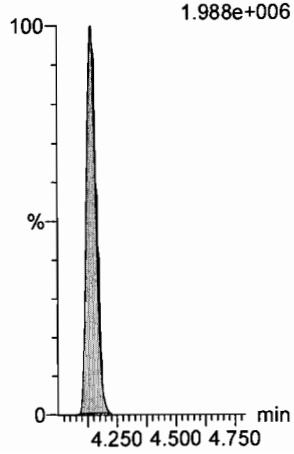
d3-N-MeFOSAA
F47:MRM of 1 channel,ES-
573.3 > 419
3.642e+005



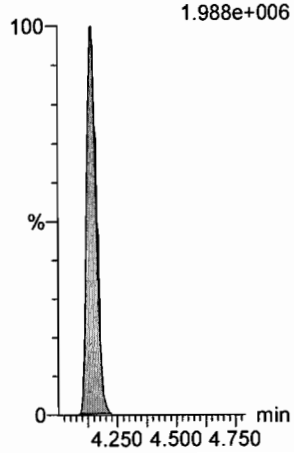
d5-N-EtFOSAA
F49:MRM of 1 channel,ES-
589.3 > 419
3.583e+005



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.988e+006



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.988e+006



Dataset: U:\Q4.PRO\results\170815M1\170815M1-42.qld

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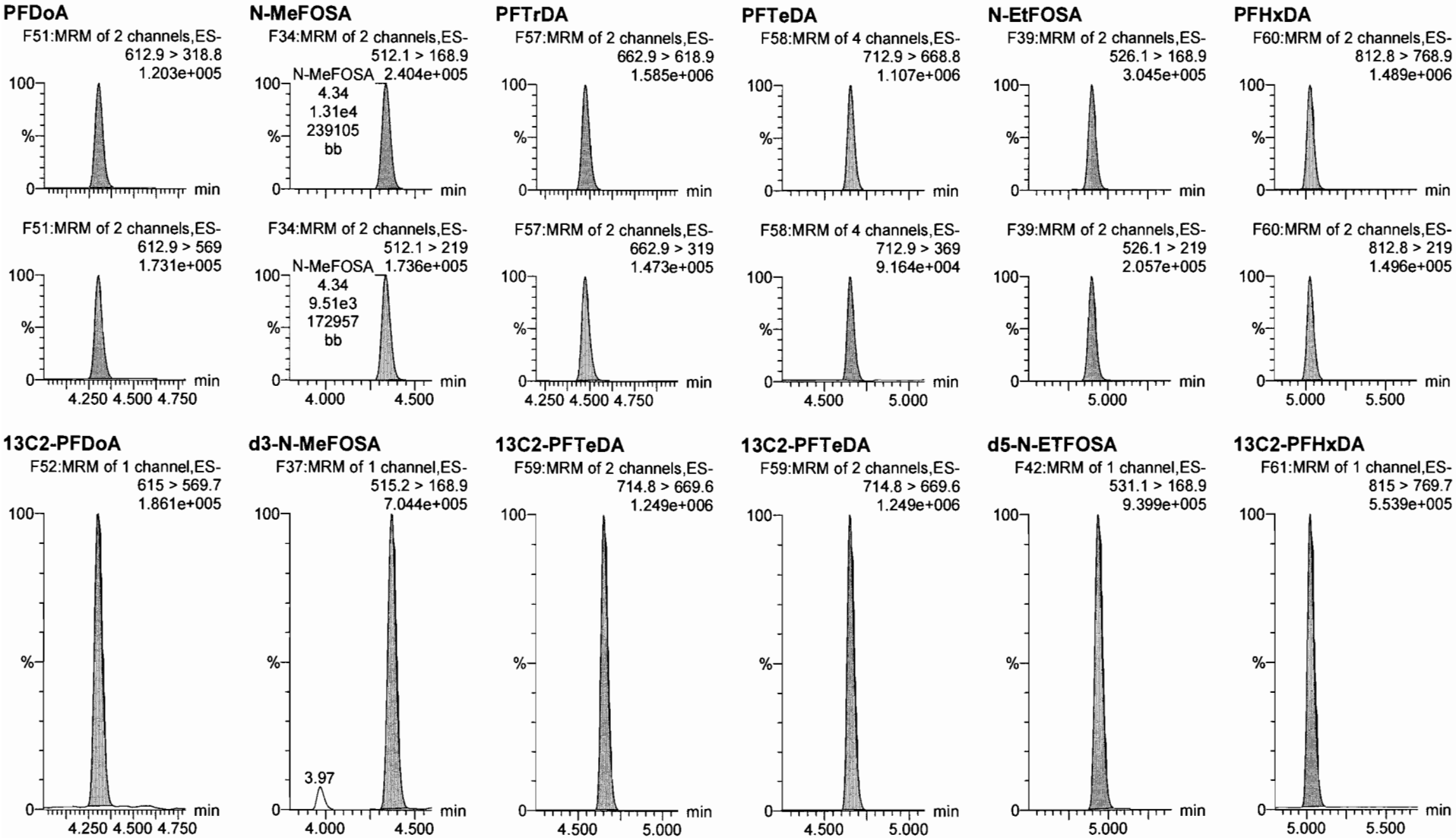
Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301



Dataset: U:\Q4.PRO\results\170815M1\170815M1-42.qld

Last Altered: Wednesday, August 16, 2017 09:52:02 Pacific Daylight Time
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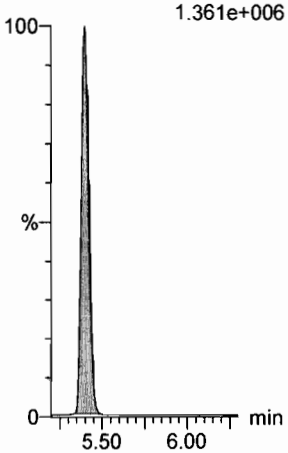
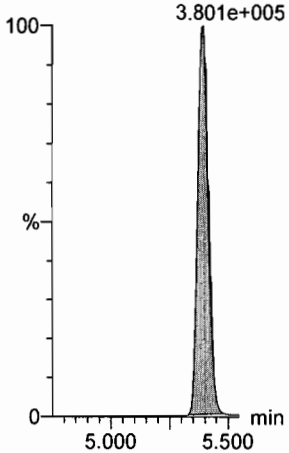
Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301

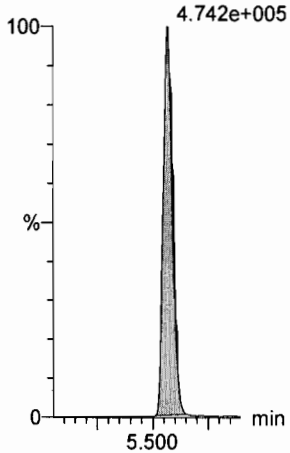
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
1.361e+006



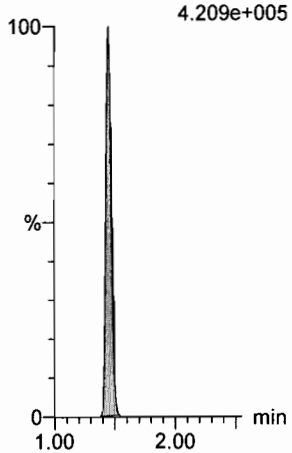
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
3.801e+005



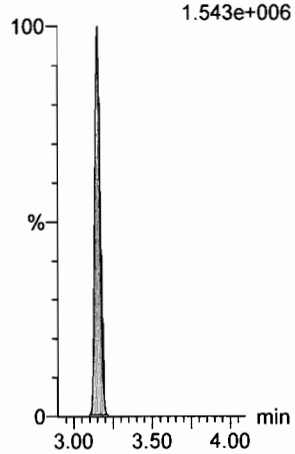
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
4.742e+005



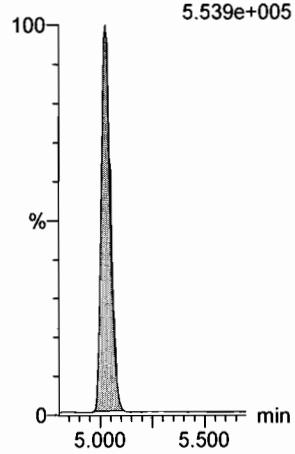
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
4.209e+005



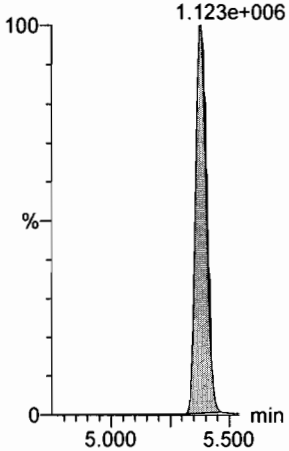
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.543e+006



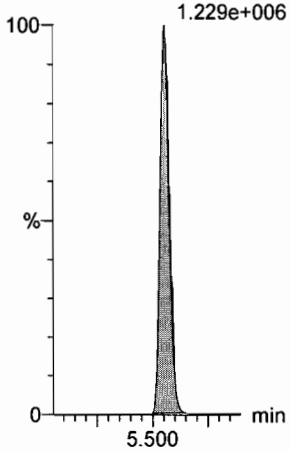
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
5.539e+005



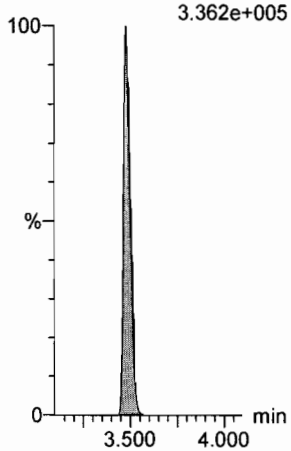
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
1.123e+006



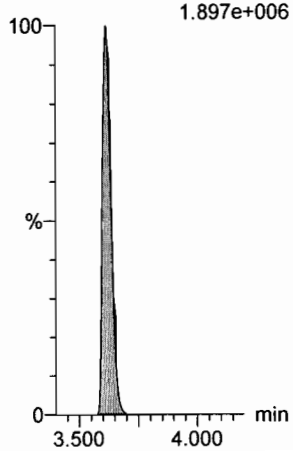
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
1.229e+006



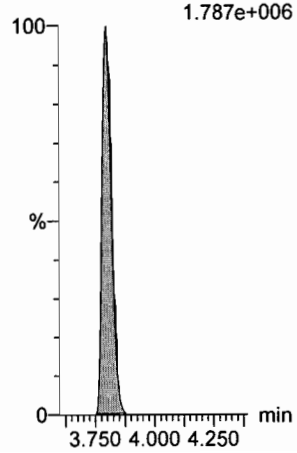
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
3.362e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.897e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.787e+006



Dataset: U:\Q4.PRO\results\170815M1\170815M1-42.qld

Last Altered: Wednesday, August 16, 2017 09:52:02 Pacific Daylight Time
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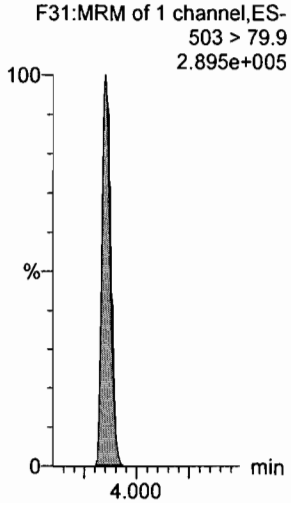
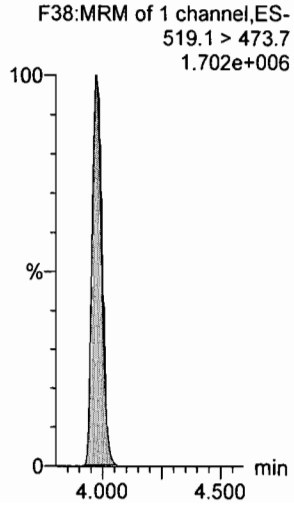
Name: 170815M1_42, Date: 15-Aug-2017, Time: 20:42:31, ID: ST170815M1-3 PFC CS3 17H1301, Description: PFC CS3 17H1301

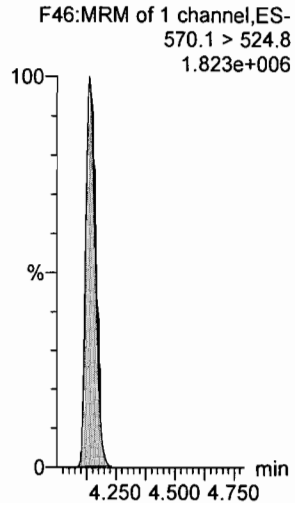
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170822M1\RS AREAS.qld

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Method: U:\Q4.PRO\MethDB\PFAS_RS=only.mdb 21 Aug 2017 15:15:01
Calibration: 23 Aug 2017 08:28:42

Name: 170822M1_7, Date: 22-Aug-2017, Time: 11:55:45, ID: ST170822M1-6 PFC CS3 17H2207, Description: PFC CS3 17H2207

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	4.13e4	100.0	NO
2	2	13C3-PFHxS	ST170...	7.34e3	100.0	NO
3	3	13C8-PFOA	ST170...	5.59e4	100.0	NO
4	4	13C9-PFNA	ST170...	7.78e4	100.0	NO
5	5	13C4-PFOS	ST170...	1.19e4	100.0	NO
6	6	13C6-PFDA	ST170...	6.62e4	100.0	NO
7	7	13C7-PFUnA	ST170...	7.68e4	100.0	NO

Name: 170822M1_14, Date: 22-Aug-2017, Time: 13:11:13, ID: B7H0066-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	6.57e4	158.9	YES
2	2	13C3-PFHxS	B7H00...	1.12e4	153.3	YES
3	3	13C8-PFOA	B7H00...	5.67e4	101.5	NO
4	4	13C9-PFNA	B7H00...	6.83e4	87.8	NO
5	5	13C4-PFOS	B7H00...	1.15e4	96.2	NO
6	6	13C6-PFDA	B7H00...	6.28e4	94.9	NO
7	7	13C7-PFUnA	B7H00...	6.29e4	81.9	NO

Name: 170822M1_15, Date: 22-Aug-2017, Time: 13:22:00, ID: B7H0069-BS1 OPR 0.25, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	7.30e4	176.7	YES
2	2	13C3-PFHxS	B7H00...	1.07e4	145.7	NO
3	3	13C8-PFOA	B7H00...	6.72e4	120.2	NO
4	4	13C9-PFNA	B7H00...	7.56e4	97.2	NO
5	5	13C4-PFOS	B7H00...	1.17e4	97.8	NO
6	6	13C6-PFDA	B7H00...	7.18e4	108.5	NO
7	7	13C7-PFUnA	B7H00...	6.79e4	88.5	NO

Name: 170822M1_16, Date: 22-Aug-2017, Time: 13:32:45, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA			NO

Dataset: U:\Q4.PRO\results\170822M1\RS AREAS.qld

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Name: 170822M1_17, Date: 22-Aug-2017, Time: 13:43:32, ID: B7H0066-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	7.01e4	169.7	YES
2	2	13C3-PFHxS	B7H00...	1.16e4	157.4	YES
3	3	13C8-PFOA	B7H00...	6.36e4	113.7	NO
4	4	13C9-PFNA	B7H00...	6.92e4	89.0	NO
5	5	13C4-PFOS	B7H00...	1.16e4	96.8	NO
6	6	13C6-PFDA	B7H00...	6.95e4	105.0	NO
7	7	13C7-PFUnA	B7H00...	6.88e4	89.7	NO

Name: 170822M1_18, Date: 22-Aug-2017, Time: 13:54:18, ID: B7H0069-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	8.41e4	203.4	YES
2	2	13C3-PFHxS	B7H00...	1.41e4	192.0	YES
3	3	13C8-PFOA	B7H00...	7.58e4	135.7	NO
4	4	13C9-PFNA	B7H00...	8.17e4	105.0	NO
5	5	13C4-PFOS	B7H00...	1.37e4	114.9	NO
6	6	13C6-PFDA	B7H00...	8.05e4	121.6	NO
7	7	13C7-PFUnA	B7H00...	8.71e4	113.5	NO

Name: 170822M1_19, Date: 22-Aug-2017, Time: 14:04:57, ID: B7H0066-MS1 Matrix Spike 0.11555, Description: Matrix Spike

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	6.87e4	166.1	YES
2	2	13C3-PFHxS	B7H00...	1.14e4	155.8	YES
3	3	13C8-PFOA	B7H00...	6.11e4	109.4	NO
4	4	13C9-PFNA	B7H00...	6.89e4	88.6	NO
5	5	13C4-PFOS	B7H00...	1.13e4	94.4	NO
6	6	13C6-PFDA	B7H00...	5.81e4	87.9	NO
7	7	13C7-PFUnA	B7H00...	6.00e4	78.1	NO

Name: 170822M1_20, Date: 22-Aug-2017, Time: 14:15:35, ID: B7H0066-MSD1 Matrix Spike Dup 0.11567, Description: Matrix Spike Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	8.10e4	196.0	YES
2	2	13C3-PFHxS	B7H00...	1.29e4	175.3	YES
3	3	13C8-PFOA	B7H00...	7.29e4	130.4	NO
4	4	13C9-PFNA	B7H00...	8.02e4	103.1	NO
5	5	13C4-PFOS	B7H00...	1.28e4	107.1	NO
6	6	13C6-PFDA	B7H00...	8.03e4	121.3	NO
7	7	13C7-PFUnA	B7H00...	7.78e4	101.4	NO

Dataset: U:\Q4.PRO\results\170822M1\RS AREAS.qld

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Name: 170822M1_21, Date: 22-Aug-2017, Time: 14:26:21, ID: B7H0066-MS2 Matrix Spike 0.11836, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	7.98e4	193.1	YES
2	2 13C3-PFHxS	B7H00...	1.22e4	165.6	YES
3	3 13C8-PFOA	B7H00...	7.06e4	126.4	NO
4	4 13C9-PFNA	B7H00...	7.89e4	101.4	NO
5	5 13C4-PFOS	B7H00...	1.29e4	107.9	NO
6	6 13C6-PFDA	B7H00...	6.60e4	99.7	NO
7	7 13C7-PFUnA	B7H00...	7.59e4	98.9	NO

Name: 170822M1_22, Date: 22-Aug-2017, Time: 14:37:00, ID: B7H0066-MSD2 Matrix Spike Dup 0.11729, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	7.23e4	174.9	YES
2	2 13C3-PFHxS	B7H00...	1.14e4	155.8	YES
3	3 13C8-PFOA	B7H00...	6.22e4	111.3	NO
4	4 13C9-PFNA	B7H00...	7.79e4	100.1	NO
5	5 13C4-PFOS	B7H00...	1.17e4	98.0	NO
6	6 13C6-PFDA	B7H00...	6.50e4	98.2	NO
7	7 13C7-PFUnA	B7H00...	6.66e4	86.8	NO

Name: 170822M1_23, Date: 22-Aug-2017, Time: 14:47:46, ID: B7H0069-MS1 Matrix Spike 0.1193, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	7.87e4	190.4	YES
2	2 13C3-PFHxS	B7H00...	1.29e4	176.3	YES
3	3 13C8-PFOA	B7H00...	7.09e4	126.9	NO
4	4 13C9-PFNA	B7H00...	7.48e4	96.1	NO
5	5 13C4-PFOS	B7H00...	1.25e4	104.5	NO
6	6 13C6-PFDA	B7H00...	7.46e4	112.7	NO
7	7 13C7-PFUnA	B7H00...	7.15e4	93.1	NO

Name: 170822M1_24, Date: 22-Aug-2017, Time: 14:58:33, ID: B7H0069-MSD1 Matrix Spike Dup 0.11433, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H00...	7.56e4	182.9	YES
2	2 13C3-PFHxS	B7H00...	1.16e4	157.6	YES
3	3 13C8-PFOA	B7H00...	6.69e4	119.7	NO
4	4 13C9-PFNA	B7H00...	7.33e4	94.2	NO
5	5 13C4-PFOS	B7H00...	1.17e4	98.1	NO
6	6 13C6-PFDA	B7H00...	6.33e4	95.7	NO
7	7 13C7-PFUnA	B7H00...	6.33e4	82.4	NO

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Name: 170822M1_25, Date: 22-Aug-2017, Time: 15:09:16, ID: 1701011-01 06302140000900_2017 0.11617, Description: 06302140000900_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	6.54e4	158.3	YES
2	2	13C3-PFHxS	17010...	1.07e4	145.9	NO
3	3	13C8-PFOA	17010...	5.81e4	104.0	NO
4	4	13C9-PFNA	17010...	6.58e4	84.5	NO
5	5	13C4-PFOS	17010...	1.03e4	86.7	NO
6	6	13C6-PFDA	17010...	6.08e4	91.8	NO
7	7	13C7-PFUnA	17010...	5.52e4	72.0	NO

Name: 170822M1_26, Date: 22-Aug-2017, Time: 15:20:00, ID: 1701011-02 06302140002050_2017 0.11859, Description: 06302140002050_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	7.41e4	179.2	YES
2	2	13C3-PFHxS	17010...	1.19e4	161.5	YES
3	3	13C8-PFOA	17010...	6.61e4	118.3	NO
4	4	13C9-PFNA	17010...	7.08e4	91.0	NO
5	5	13C4-PFOS	17010...	1.15e4	96.5	NO
6	6	13C6-PFDA	17010...	7.35e4	111.1	NO
7	7	13C7-PFUnA	17010...	5.64e4	73.5	NO

Name: 170822M1_27, Date: 22-Aug-2017, Time: 15:30:46, ID: 1701011-03 06302140002100_2017 0.11904, Description: 06302140002100_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	6.45e4	156.0	YES
2	2	13C3-PFHxS	17010...	1.06e4	144.8	NO
3	3	13C8-PFOA	17010...	5.72e4	102.4	NO
4	4	13C9-PFNA	17010...	5.94e4	76.3	NO
5	5	13C4-PFOS	17010...	1.09e4	91.0	NO
6	6	13C6-PFDA	17010...	5.74e4	86.7	NO
7	7	13C7-PFUnA	17010...	5.22e4	68.0	NO

Name: 170822M1_28, Date: 22-Aug-2017, Time: 15:41:53, ID: 1701011-04 06302810002200_2017 0.11477, Description: 06302810002200_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	6.74e4	163.1	YES
2	2	13C3-PFHxS	17010...	1.07e4	146.1	NO
3	3	13C8-PFOA	17010...	5.98e4	107.0	NO
4	4	13C9-PFNA	17010...	6.49e4	83.4	NO
5	5	13C4-PFOS	17010...	1.05e4	87.5	NO
6	6	13C6-PFDA	17010...	6.21e4	93.8	NO
7	7	13C7-PFUnA	17010...	5.99e4	78.0	NO

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Name: 170822M1_29, Date: 22-Aug-2017, Time: 15:53:06, ID: 1701011-05 064W5000002700_2017 0.11543, Description: 064W5000002700_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	8.17e4	197.6	YES
2	2	13C3-PFHxS	17010...	1.38e4	187.6	YES
3	3	13C8-PFOA	17010...	7.16e4	128.1	NO
4	4	13C9-PFNA	17010...	8.56e4	110.0	NO
5	5	13C4-PFOS	17010...	1.29e4	107.7	NO
6	6	13C6-PFDA	17010...	8.04e4	121.5	NO
7	7	13C7-PFUnA	17010...	6.82e4	88.9	NO

Name: 170822M1_30, Date: 22-Aug-2017, Time: 16:03:50, ID: 1701011-06 FD-01 0.12004, Description: FD-01

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	7.03e4	170.1	YES
2	2	13C3-PFHxS	17010...	1.16e4	158.4	YES
3	3	13C8-PFOA	17010...	6.15e4	110.0	NO
4	4	13C9-PFNA	17010...	7.11e4	91.4	NO
5	5	13C4-PFOS	17010...	1.09e4	90.9	NO
6	6	13C6-PFDA	17010...	6.54e4	98.8	NO
7	7	13C7-PFUnA	17010...	6.66e4	86.8	NO

Name: 170822M1_31, Date: 22-Aug-2017, Time: 16:14:37, ID: 1701011-07 FD-02 0.11727, Description: FD-02

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	7.34e4	177.6	YES
2	2	13C3-PFHxS	17010...	1.19e4	161.9	YES
3	3	13C8-PFOA	17010...	6.68e4	119.5	NO
4	4	13C9-PFNA	17010...	6.24e4	80.2	NO
5	5	13C4-PFOS	17010...	1.15e4	96.1	NO
6	6	13C6-PFDA	17010...	6.89e4	104.1	NO
7	7	13C7-PFUnA	17010...	6.15e4	80.1	NO

Name: 170822M1_32, Date: 22-Aug-2017, Time: 16:25:15, ID: 1701013-04@5X 064A3000000100_2017 0.1166, Description: 064A3000000100_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	1.48e4	35.7	YES
2	2	13C3-PFHxS	17010...	2.68e3	36.6	YES
3	3	13C8-PFOA	17010...	1.49e4	26.7	YES
4	4	13C9-PFNA	17010...	1.59e4	20.5	YES
5	5	13C4-PFOS	17010...	2.71e3	22.7	YES
6	6	13C6-PFDA	17010...	1.59e4	24.0	YES
7	7	13C7-PFUnA	17010...	1.50e4	19.5	YES

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Name: 170822M1_33, Date: 22-Aug-2017, Time: 16:40:37, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	7.17e0	0.0	NO

Name: 170822M1_34, Date: 22-Aug-2017, Time: 16:51:21, ID: 1701013-05 064A3500005900_2017 0.12037, Description: 064A3500005900_2017

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	7.99e4	193.2	YES
2	2	13C3-PFHxS	17010...	1.27e4	173.2	YES
3	3	13C8-PFOA	17010...	6.81e4	121.9	NO
4	4	13C9-PFNA	17010...	8.14e4	104.6	NO
5	5	13C4-PFOS	17010...	1.31e4	109.7	NO
6	6	13C6-PFDA	17010...	6.90e4	104.3	NO
7	7	13C7-PFUnA	17010...	7.94e4	103.4	NO

Name: 170822M1_35, Date: 22-Aug-2017, Time: 17:01:59, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	2.03e1	0.0	NO

Name: 170822M1_36, Date: 22-Aug-2017, Time: 17:12:38, ID: ST170822M1-11 PFC CS3 17H2207, Description: PFC CS3 17H2207

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	4.01e4	97.0	NO
2	2	13C3-PFHxS	ST170...	7.01e3	95.5	NO
3	3	13C8-PFOA	ST170...	4.85e4	86.8	NO
4	4	13C9-PFNA	ST170...	7.66e4	98.4	NO
5	5	13C4-PFOS	ST170...	1.17e4	98.2	NO
6	6	13C6-PFDA	ST170...	7.34e4	110.9	NO
7	7	13C7-PFUnA	ST170...	7.81e4	101.7	NO

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Name: 170822M1_37, Date: 22-Aug-2017, Time: 17:23:24, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	6.17e0	0.0	NO

Name: 170822M1_38, Date: 22-Aug-2017, Time: 17:34:03, ID: B7H0050-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	1.40e5	169.7	YES
2	2	13C3-PFHxS	B7H00...	2.24e4	152.9	YES
3	3	13C8-PFOA	B7H00...	1.33e5	118.7	NO
4	4	13C9-PFNA	B7H00...	1.49e5	96.0	NO
5	5	13C4-PFOS	B7H00...	2.21e4	92.7	NO
6	6	13C6-PFDA	B7H00...	1.39e5	104.7	NO
7	7	13C7-PFUnA	B7H00...	1.57e5	102.3	NO

Name: 170822M1_39, Date: 22-Aug-2017, Time: 17:44:41, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA			NO

Name: 170822M1_40, Date: 22-Aug-2017, Time: 17:55:20, ID: B7H0050-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H00...	1.31e5	158.8	YES
2	2	13C3-PFHxS	B7H00...	2.15e4	146.4	NO
3	3	13C8-PFOA	B7H00...	1.24e5	111.3	NO
4	4	13C9-PFNA	B7H00...	1.46e5	94.0	NO
5	5	13C4-PFOS	B7H00...	2.02e4	84.4	NO
6	6	13C6-PFDA	B7H00...	1.13e5	85.3	NO
7	7	13C7-PFUnA	B7H00...	7.28e4	47.4	YES

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Name: 170822M1_41, Date: 22-Aug-2017, Time: 18:10:57, ID: 1700981-03 FT02-FT1 0.02258, Description: FT02-FT1

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	1.61e5	194.9	YES
2	2	13C3-PFHxS	17009...	2.16e4	147.1	NO
3	3	13C8-PFOA	17009...	1.45e5	129.4	NO
4	4	13C9-PFNA	17009...	1.49e5	95.9	NO
5	5	13C4-PFOS	17009...	2.45e4	102.7	NO
6	6	13C6-PFDA	17009...	1.77e5	133.9	NO
7	7	13C7-PFUnA	17009...	1.67e5	108.8	NO

Name: 170822M1_42, Date: 22-Aug-2017, Time: 18:21:35, ID: 1700981-04 FT02-SVE1-2 0.02246, Description: FT02-SVE1-2

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	1.03e5	124.8	NO
2	2	13C3-PFHxS	17009...	9.90e3	67.4	NO
3	3	13C8-PFOA	17009...	9.31e4	83.3	NO
4	4	13C9-PFNA	17009...	1.10e5	70.8	NO
5	5	13C4-PFOS	17009...	1.33e4	55.5	NO
6	6	13C6-PFDA	17009...	1.20e5	90.5	NO
7	7	13C7-PFUnA	17009...	1.08e5	70.6	NO

Name: 170822M1_43, Date: 22-Aug-2017, Time: 18:32:22, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	9.23e0	0.0	NO

Name: 170822M1_44, Date: 22-Aug-2017, Time: 18:43:00, ID: 1700981-05 FT02-FT8W 0.02432, Description: FT02-FT8W

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	1.33e5	161.1	YES
2	2	13C3-PFHxS	17009...	1.63e4	111.0	NO
3	3	13C8-PFOA	17009...	1.12e5	99.9	NO
4	4	13C9-PFNA	17009...	1.16e5	74.4	NO
5	5	13C4-PFOS	17009...	1.26e4	52.6	NO
6	6	13C6-PFDA	17009...	1.47e5	111.2	NO
7	7	13C7-PFUnA	17009...	1.44e5	93.5	NO

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Name: 170822M1_45, Date: 22-Aug-2017, Time: 18:53:39, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	9.22e0	0.0	NO

Name: 170822M1_46, Date: 22-Aug-2017, Time: 19:04:25, ID: 1700981-06 FT02-FT3 0.0196, Description: FT02-FT3

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	9.99e4	120.9	NO
2	2	13C3-PFHxS	17009...	1.24e4	84.6	NO
3	3	13C8-PFOA	17009...	9.77e4	87.4	NO
4	4	13C9-PFNA	17009...	1.07e5	68.6	NO
5	5	13C4-PFOS	17009...	1.27e4	53.3	NO
6	6	13C6-PFDA	17009...	1.15e5	87.1	NO
7	7	13C7-PFUnA	17009...	1.16e5	75.6	NO

Name: 170822M1_47, Date: 22-Aug-2017, Time: 19:15:03, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	5.79e0	0.0	NO

Name: 170822M1_48, Date: 22-Aug-2017, Time: 19:25:42, ID: 1700981-07 FT02-FT4S 0.0216, Description: FT02-FT4S

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	1.15e5	138.8	NO
2	2	13C3-PFHxS	17009...	1.65e4	112.1	NO
3	3	13C8-PFOA	17009...	1.04e5	93.2	NO
4	4	13C9-PFNA	17009...	1.28e5	82.3	NO
5	5	13C4-PFOS	17009...	1.50e4	62.6	NO
6	6	13C6-PFDA	17009...	1.13e5	85.4	NO
7	7	13C7-PFUnA	17009...	1.27e5	82.8	NO

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Name: 170822M1_49, Date: 22-Aug-2017, Time: 19:36:20, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA	5.43e0	0.0	NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA			NO

Name: 170822M1_50, Date: 22-Aug-2017, Time: 19:47:07, ID: 1700981-08 FT02-SVE2-8 0.02204, Description: FT02-SVE2-8

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	5.03e4	60886.8	YES
2	2	13C3-PFHxS	17009...	4.23e3	28832.4	YES
3	3	13C8-PFOA	17009...	3.20e4	28627.3	YES
4	4	13C9-PFNA	17009...	6.52e4	41864.0	YES
5	5	13C4-PFOS	17009...	7.39e3	30938.1	YES
6	6	13C6-PFDA	17009...	1.03e5	77749.4	YES
7	7	13C7-PFUnA	17009...	1.02e5	66381.7	YES

Name: 170822M1_51, Date: 22-Aug-2017, Time: 19:57:53, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.47e1	0.0	NO

Name: 170822M1_52, Date: 22-Aug-2017, Time: 20:08:40, ID: 1700981-04@5X FT02-SVE1-2 0.02246, Description: FT02-SVE1-2

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	3.29e4	39.8	YES
2	2	13C3-PFHxS	17009...	3.86e3	26.3	YES
3	3	13C8-PFOA	17009...	2.67e4	23.9	YES
4	4	13C9-PFNA	17009...	3.15e4	20.3	YES
5	5	13C4-PFOS	17009...	4.64e3	19.4	YES
6	6	13C6-PFDA	17009...	3.12e4	23.6	YES
7	7	13C7-PFUnA	17009...	3.30e4	21.5	YES

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Name: 170822M1_53, Date: 22-Aug-2017, Time: 20:19:18, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.69e1	0.0	NO

Name: 170822M1_54, Date: 22-Aug-2017, Time: 20:29:56, ID: 1700981-05@5X FT02-FT8W 0.02432, Description: FT02-FT8W

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	4.27e4	51.7	NO
2	2	13C3-PFHxS	17009...	6.16e3	42.0	YES
3	3	13C8-PFOA	17009...	3.72e4	33.3	YES
4	4	13C9-PFNA	17009...	3.97e4	25.5	YES
5	5	13C4-PFOS	17009...	5.23e3	21.9	YES
6	6	13C6-PFDA	17009...	3.84e4	29.0	YES
7	7	13C7-PFUnA	17009...	4.31e4	28.1	YES

Name: 170822M1_55, Date: 22-Aug-2017, Time: 20:40:35, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	6.43e0	0.0	NO

Name: 170822M1_56, Date: 22-Aug-2017, Time: 20:51:13, ID: 1700981-06@5X FT02-FT3 0.0196, Description: FT02-FT3

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	3.24e4	39.2	YES
2	2	13C3-PFHxS	17009...	4.70e3	32.1	YES
3	3	13C8-PFOA	17009...	2.89e4	25.9	YES
4	4	13C9-PFNA	17009...	3.49e4	22.4	YES
5	5	13C4-PFOS	17009...	4.51e3	18.9	YES
6	6	13C6-PFDA	17009...	3.18e4	24.0	YES
7	7	13C7-PFUnA	17009...	3.56e4	23.2	YES

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Name: 170822M1_57, Date: 22-Aug-2017, Time: 21:01:52, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.08e1	0.0	NO

Name: 170822M1_58, Date: 22-Aug-2017, Time: 21:12:30, ID: 1700981-07@5X FT02-FT4S 0.0216, Description: FT02-FT4S

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	3.54e4	42.9	YES
2	2	13C3-PFHxS	17009...	5.84e3	39.8	YES
3	3	13C8-PFOA	17009...	3.49e4	31.3	YES
4	4	13C9-PFNA	17009...	3.55e4	22.8	YES
5	5	13C4-PFOS	17009...	5.73e3	24.0	YES
6	6	13C6-PFDA	17009...	3.93e4	29.7	YES
7	7	13C7-PFUnA	17009...	3.72e4	24.2	YES

Name: 170822M1_59, Date: 22-Aug-2017, Time: 21:23:09, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.44e1	0.0	NO

Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	4.28e4	103.6	NO
2	2	13C3-PFHxS	ST170...	7.61e3	103.6	NO
3	3	13C8-PFOA	ST170...	6.10e4	109.1	NO
4	4	13C9-PFNA	ST170...	7.51e4	96.5	NO
5	5	13C4-PFOS	ST170...	1.23e4	102.6	NO
6	6	13C6-PFDA	ST170...	8.05e4	121.6	NO
7	7	13C7-PFUnA	ST170...	8.00e4	104.2	NO

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Name: 170822M1_61, Date: 22-Aug-2017, Time: 21:44:33, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA	5.04e0	0.0	NO
7	7 13C7-PFUnA	IPA	1.25e1	0.0	NO

Name: 170822M1_62, Date: 22-Aug-2017, Time: 21:55:11, ID: 1700981-08@20X FT02-SVE2-8 0.02204, Description: FT02-SVE2-8

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	6.09e3	7368.0	YES
2	2 13C3-PFHxS	17009...	9.29e2	6331.2	YES
3	3 13C8-PFOA	17009...	5.66e3	5067.8	YES
4	4 13C9-PFNA	17009...	7.47e3	4797.4	YES
5	5 13C4-PFOS	17009...	1.14e3	4770.4	YES
6	6 13C6-PFDA	17009...	7.54e3	5696.0	YES
7	7 13C7-PFUnA	17009...	7.26e3	4730.5	YES

Name: 170822M1_63, Date: 22-Aug-2017, Time: 22:05:50, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.38e1	0.0	NO

Name: 170822M1_64, Date: 22-Aug-2017, Time: 22:16:39, ID: 1700980-07 IR10MW31A1-080217 0.12279, Description: IR10MW31A1-080217

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	7.41e4	179.2	YES
2	2 13C3-PFHxS	17009...	1.14e4	155.2	YES
3	3 13C8-PFOA	17009...	6.96e4	124.6	NO
4	4 13C9-PFNA	17009...	7.81e4	100.4	NO
5	5 13C4-PFOS	17009...	1.01e4	84.6	NO
6	6 13C6-PFDA	17009...	6.51e4	98.4	NO
7	7 13C7-PFUnA	17009...	4.38e4	57.0	NO

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Name: 170822M1_65, Date: 22-Aug-2017, Time: 22:27:31, ID: 1700980-08 IR10MW31A1-080217-D 0.11964, Description: IR10MW31A1-080217-D

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	7.67e4	185.6	YES
2	2 13C3-PFHxS	17009...	1.18e4	160.3	YES
3	3 13C8-PFOA	17009...	6.98e4	124.8	NO
4	4 13C9-PFNA	17009...	7.43e4	95.5	NO
5	5 13C4-PFOS	17009...	1.12e4	94.1	NO
6	6 13C6-PFDA	17009...	6.85e4	103.5	NO
7	7 13C7-PFUnA	17009...	5.52e4	72.0	NO

Name: 170822M1_66, Date: 22-Aug-2017, Time: 22:38:09, ID: 1700980-09 080217-ER-01 0.11911, Description: 080217-ER-01

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	6.96e4	168.4	YES
2	2 13C3-PFHxS	17009...	1.04e4	141.7	NO
3	3 13C8-PFOA	17009...	6.38e4	114.2	NO
4	4 13C9-PFNA	17009...	6.62e4	85.1	NO
5	5 13C4-PFOS	17009...	9.32e3	78.1	NO
6	6 13C6-PFDA	17009...	5.49e4	82.9	NO
7	7 13C7-PFUnA	17009...	4.93e4	64.3	NO

Name: 170822M1_67, Date: 22-Aug-2017, Time: 22:48:56, ID: 1700980-10 080217-SB-01 0.11909, Description: 080217-SB-01

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	17009...	7.16e4	173.2	YES
2	2 13C3-PFHxS	17009...	1.03e4	140.2	NO
3	3 13C8-PFOA	17009...	6.20e4	110.9	NO
4	4 13C9-PFNA	17009...	7.00e4	90.0	NO
5	5 13C4-PFOS	17009...	9.61e3	80.5	NO
6	6 13C6-PFDA	17009...	6.01e4	90.9	NO
7	7 13C7-PFUnA	17009...	4.76e4	62.0	NO

Name: 170822M1_68, Date: 22-Aug-2017, Time: 22:59:34, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.45e1	0.0	NO

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Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	4.47e4	108.1	NO
2	2	13C3-PFHxS	ST170...	8.18e3	111.5	NO
3	3	13C8-PFOA	ST170...	6.48e4	116.1	NO
4	4	13C9-PFNA	ST170...	8.89e4	114.2	NO
5	5	13C4-PFOS	ST170...	1.39e4	116.0	NO
6	6	13C6-PFDA	ST170...	7.56e4	114.2	NO
7	7	13C7-PFUnA	ST170...	9.52e4	124.0	NO

Name: 170822M1_70, Date: 22-Aug-2017, Time: 23:20:59, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	7.99e0	0.0	NO

Name: 170822M1_71, Date: 22-Aug-2017, Time: 23:31:37, ID: B7H0126-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H01...	1.32e5	319.2	YES
2	2	13C3-PFHxS	B7H01...	2.13e4	290.0	YES
3	3	13C8-PFOA	B7H01...	1.27e5	226.6	YES
4	4	13C9-PFNA	B7H01...	1.30e5	167.6	YES
5	5	13C4-PFOS	B7H01...	1.94e4	162.1	YES
6	6	13C6-PFDA	B7H01...	1.35e5	203.5	YES
7	7	13C7-PFUnA	B7H01...	1.15e5	149.6	NO

Name: 170822M1_72, Date: 22-Aug-2017, Time: 23:42:24, ID: B7H0130-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H01...	7.51e4	181.7	YES
2	2	13C3-PFHxS	B7H01...	1.16e4	157.6	YES
3	3	13C8-PFOA	B7H01...	7.38e4	132.1	NO
4	4	13C9-PFNA	B7H01...	7.50e4	96.3	NO
5	5	13C4-PFOS	B7H01...	1.13e4	94.9	NO
6	6	13C6-PFDA	B7H01...	7.55e4	114.0	NO
7	7	13C7-PFUnA	B7H01...	7.71e4	100.5	NO

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Name: 170822M1_73, Date: 22-Aug-2017, Time: 23:53:02, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.28e1	0.0	NO

Name: 170822M1_74, Date: 23-Aug-2017, Time: 00:03:41, ID: B7H0125-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H01...	7.82e4	189.2	YES
2	2	13C3-PFHxS	B7H01...	1.20e4	163.1	YES
3	3	13C8-PFOA	B7H01...	7.31e4	130.8	NO
4	4	13C9-PFNA	B7H01...	7.48e4	96.2	NO
5	5	13C4-PFOS	B7H01...	1.14e4	95.4	NO
6	6	13C6-PFDA	B7H01...	7.07e4	106.8	NO
7	7	13C7-PFUnA	B7H01...	7.81e4	101.7	NO

Name: 170822M1_75, Date: 23-Aug-2017, Time: 00:14:27, ID: B7H0125-BLK2 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H01...	7.79e4	188.6	YES
2	2	13C3-PFHxS	B7H01...	1.28e4	174.2	YES
3	3	13C8-PFOA	B7H01...	7.63e4	136.5	NO
4	4	13C9-PFNA	B7H01...	8.27e4	106.3	NO
5	5	13C4-PFOS	B7H01...	1.25e4	104.6	NO
6	6	13C6-PFDA	B7H01...	7.93e4	119.8	NO
7	7	13C7-PFUnA	B7H01...	7.80e4	101.7	NO

Name: 170822M1_76, Date: 23-Aug-2017, Time: 00:25:14, ID: B7H0126-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H01...	1.11e5	268.9	YES
2	2	13C3-PFHxS	B7H01...	1.79e4	243.6	YES
3	3	13C8-PFOA	B7H01...	1.03e5	184.8	YES
4	4	13C9-PFNA	B7H01...	1.26e5	161.8	YES
5	5	13C4-PFOS	B7H01...	1.64e4	137.2	NO
6	6	13C6-PFDA	B7H01...	1.05e5	158.6	YES
7	7	13C7-PFUnA	B7H01...	1.08e5	141.2	NO

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Name: 170822M1_77, Date: 23-Aug-2017, Time: 00:35:53, ID: B7H0127-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H01...	6.37e4	154.1	YES
2	2	13C3-PFHxS	B7H01...	9.97e3	135.8	NO
3	3	13C8-PFOA	B7H01...	6.04e4	108.0	NO
4	4	13C9-PFNA	B7H01...	6.45e4	82.9	NO
5	5	13C4-PFOS	B7H01...	9.98e3	83.5	NO
6	6	13C6-PFDA	B7H01...	5.40e4	81.6	NO
7	7	13C7-PFUnA	B7H01...	6.21e4	80.9	NO

Name: 170822M1_78, Date: 23-Aug-2017, Time: 00:46:40, ID: B7H0130-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7H01...	7.20e4	174.1	YES
2	2	13C3-PFHxS	B7H01...	1.12e4	152.2	YES
3	3	13C8-PFOA	B7H01...	7.37e4	131.8	NO
4	4	13C9-PFNA	B7H01...	7.80e4	100.3	NO
5	5	13C4-PFOS	B7H01...	1.11e4	92.7	NO
6	6	13C6-PFDA	B7H01...	5.67e4	85.7	NO
7	7	13C7-PFUnA	B7H01...	6.40e4	83.4	NO

Name: 170822M1_79, Date: 23-Aug-2017, Time: 00:57:27, ID: 1701078-01 SVE 2-8 0.125, Description: SVE 2-8

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	6.95e4	168.1	YES
2	2	13C3-PFHxS	17010...	5.49e3	74.8	NO
3	3	13C8-PFOA	17010...	4.43e4	79.2	NO
4	4	13C9-PFNA	17010...	7.51e4	96.5	NO
5	5	13C4-PFOS	17010...	7.23e3	60.5	NO
6	6	13C6-PFDA	17010...	1.21e5	182.4	YES
7	7	13C7-PFUnA	17010...	1.29e5	167.5	YES

Name: 170822M1_80, Date: 23-Aug-2017, Time: 01:08:14, ID: 1701078-02 SVE 3-13 0.125, Description: SVE 3-13

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	9.84e4	238.0	YES
2	2	13C3-PFHxS	17010...	8.46e3	115.2	NO
3	3	13C8-PFOA	17010...	7.26e4	130.0	NO
4	4	13C9-PFNA	17010...	9.69e4	124.5	NO
5	5	13C4-PFOS	17010...	1.18e4	98.9	NO
6	6	13C6-PFDA	17010...	1.21e5	183.2	YES
7	7	13C7-PFUnA	17010...	1.37e5	178.6	YES

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Name: 170822M1_81, Date: 23-Aug-2017, Time: 01:19:00, ID: B7H0127-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H01...	5.91e4	142.9	NO
2	2 13C3-PFHxS	B7H01...	8.74e3	119.1	NO
3	3 13C8-PFOA	B7H01...	5.44e4	97.4	NO
4	4 13C9-PFNA	B7H01...	5.87e4	75.5	NO
5	5 13C4-PFOS	B7H01...	8.79e3	73.6	NO
6	6 13C6-PFDA	B7H01...	5.36e4	81.0	NO
7	7 13C7-PFUnA	B7H01...	5.82e4	75.8	NO

Name: 170822M1_82, Date: 23-Aug-2017, Time: 01:29:47, ID: B7H0127-BS2 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H01...	6.90e4	167.0	YES
2	2 13C3-PFHxS	B7H01...	1.04e4	142.2	NO
3	3 13C8-PFOA	B7H01...	6.56e4	117.4	NO
4	4 13C9-PFNA	B7H01...	6.77e4	87.0	NO
5	5 13C4-PFOS	B7H01...	1.11e4	93.3	NO
6	6 13C6-PFDA	B7H01...	6.51e4	98.4	NO
7	7 13C7-PFUnA	B7H01...	6.58e4	85.7	NO

Name: 170822M1_83, Date: 23-Aug-2017, Time: 01:40:34, ID: B7H0127-BS3 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H01...	6.91e4	167.3	YES
2	2 13C3-PFHxS	B7H01...	1.08e4	146.9	NO
3	3 13C8-PFOA	B7H01...	6.91e4	123.7	NO
4	4 13C9-PFNA	B7H01...	7.32e4	94.1	NO
5	5 13C4-PFOS	B7H01...	1.12e4	93.5	NO
6	6 13C6-PFDA	B7H01...	7.13e4	107.8	NO
7	7 13C7-PFUnA	B7H01...	7.14e4	93.0	NO

Name: 170822M1_84, Date: 23-Aug-2017, Time: 01:51:21, ID: B7H0127-BS4 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7H01...	6.10e4	147.6	NO
2	2 13C3-PFHxS	B7H01...	1.01e4	137.4	NO
3	3 13C8-PFOA	B7H01...	6.38e4	114.1	NO
4	4 13C9-PFNA	B7H01...	5.93e4	76.2	NO
5	5 13C4-PFOS	B7H01...	1.04e4	87.4	NO
6	6 13C6-PFDA	B7H01...	5.52e4	83.4	NO
7	7 13C7-PFUnA	B7H01...	6.41e4	83.4	NO

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Name: 170822M1_85, Date: 23-Aug-2017, Time: 02:02:06, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA	8.63e0	0.0	NO
7	7	13C7-PFUnA	IPA	1.39e1	0.0	NO

Name: 170822M1_86, Date: 23-Aug-2017, Time: 02:12:49, ID: 1701079-03RE1@20X VEL FOAM L3 0.125, Description: VEL FOAM L3

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	3.16e3	7.7	YES
2	2	13C3-PFHxS	17010...	4.19e2	5.7	YES
3	3	13C8-PFOA	17010...	3.15e3	5.6	YES
4	4	13C9-PFNA	17010...	3.44e3	4.4	YES
5	5	13C4-PFOS	17010...	6.08e2	5.1	YES
6	6	13C6-PFDA	17010...	3.45e3	5.2	YES
7	7	13C7-PFUnA	17010...	3.18e3	4.1	YES

Name: 170822M1_87, Date: 23-Aug-2017, Time: 02:23:39, ID: 1701079-03RE1 VEL FOAM L3 0.125, Description: VEL FOAM L3

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17010...	3.71e4	89.8	NO
2	2	13C3-PFHxS	17010...	7.21e3	98.3	NO
3	3	13C8-PFOA	17010...	4.02e4	71.9	NO
4	4	13C9-PFNA	17010...	3.67e4	47.2	YES
5	5	13C4-PFOS	17010...	4.56e3	38.1	YES
6	6	13C6-PFDA	17010...	4.15e4	62.7	NO
7	7	13C7-PFUnA	17010...	4.15e4	54.1	NO

Name: 170822M1_88, Date: 23-Aug-2017, Time: 02:34:18, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	8.19e0	0.0	NO

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Name: 170822M1_89, Date: 23-Aug-2017, Time: 02:44:58, ID: 1700962-02@80X West Tank 0.125, Description: West Tank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	9.67e2	1.2	YES
2	2	13C3-PFHxS	17009...	1.10e2	0.7	YES
3	3	13C8-PFOA	17009...	1.07e3	1.0	YES
4	4	13C9-PFNA	17009...	1.52e3	1.0	YES
5	5	13C4-PFOS	17009...	2.15e2	0.9	YES
6	6	13C6-PFDA	17009...	1.15e3	0.9	YES
7	7	13C7-PFUnA	17009...	1.31e3	0.9	YES

Name: 170822M1_90, Date: 23-Aug-2017, Time: 02:55:44, ID: 1700962-02@40X West Tank 0.125, Description: West Tank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	1.82e3	2.2	YES
2	2	13C3-PFHxS	17009...	1.61e2	1.1	YES
3	3	13C8-PFOA	17009...	1.52e3	1.4	YES
4	4	13C9-PFNA	17009...	3.45e3	2.2	YES
5	5	13C4-PFOS	17009...	3.56e2	1.5	YES
6	6	13C6-PFDA	17009...	2.04e3	1.5	YES
7	7	13C7-PFUnA	17009...	3.13e3	2.0	YES

Name: 170822M1_91, Date: 23-Aug-2017, Time: 03:06:32, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA	5.15e0	0.0	NO
7	7	13C7-PFUnA	IPA			NO

Name: 170822M1_92, Date: 23-Aug-2017, Time: 03:17:18, ID: 1700962-03@80X MiddleTank 0.125, Description: MiddleTank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	8.96e2	1.1	YES
2	2	13C3-PFHxS	17009...	6.73e1	0.5	YES
3	3	13C8-PFOA	17009...	8.49e2	0.8	YES
4	4	13C9-PFNA	17009...	1.57e3	1.0	YES
5	5	13C4-PFOS	17009...	1.80e2	0.8	YES
6	6	13C6-PFDA	17009...	1.03e3	0.8	YES
7	7	13C7-PFUnA	17009...	1.69e3	1.1	YES

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Name: 170822M1_93, Date: 23-Aug-2017, Time: 03:28:05, ID: 1700962-03@40X MiddleTank 0.125, Description: MiddleTank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	1.79e3	2.2	YES
2	2	13C3-PFHxS	17009...	1.79e2	1.2	YES
3	3	13C8-PFOA	17009...	1.16e3	1.0	YES
4	4	13C9-PFNA	17009...	3.25e3	2.1	YES
5	5	13C4-PFOS	17009...	3.66e2	1.5	YES
6	6	13C6-PFDA	17009...	1.72e3	1.3	YES
7	7	13C7-PFUnA	17009...	2.54e3	1.7	YES

Name: 170822M1_94, Date: 23-Aug-2017, Time: 03:38:52, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	8.94e0	0.0	NO

Name: 170822M1_95, Date: 23-Aug-2017, Time: 03:49:39, ID: 1700974-12 MATP03038 0.125, Description: MATP03038

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	17009...	6.20e4	150.0	YES
2	2	13C3-PFHxS	17009...	1.05e4	142.9	NO
3	3	13C8-PFOA	17009...	6.00e4	107.4	NO
4	4	13C9-PFNA	17009...	6.67e4	85.8	NO
5	5	13C4-PFOS	17009...	1.01e4	84.5	NO
6	6	13C6-PFDA	17009...	5.53e4	83.6	NO
7	7	13C7-PFUnA	17009...	6.21e4	80.9	NO

Name: 170822M1_96, Date: 23-Aug-2017, Time: 04:00:28, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	8.48e0	0.0	NO

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Name: 170822M1_97, Date: 23-Aug-2017, Time: 04:11:13, ID: ST170822M1-14 PFC CS3 17H2207, Description: PFC CS3 17H2207

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170...	4.83e4	116.8	NO
2	2	13C3-PFHxS	ST170...	9.02e3	122.9	NO
3	3	13C8-PFOA	ST170...	8.67e4	155.2	YES
4	4	13C9-PFNA	ST170...	8.98e4	115.3	NO
5	5	13C4-PFOS	ST170...	1.43e4	119.3	NO
6	6	13C6-PFDA	ST170...	7.36e4	111.2	NO
7	7	13C7-PFUnA	ST170...	8.45e4	110.1	NO

Name: 170822M1_98, Date: 23-Aug-2017, Time: 04:22:00, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	IPA			NO
2	2	13C3-PFHxS	IPA			NO
3	3	13C8-PFOA	IPA			NO
4	4	13C9-PFNA	IPA			NO
5	5	13C4-PFOS	IPA			NO
6	6	13C6-PFDA	IPA			NO
7	7	13C7-PFUnA	IPA	1.69e1	0.0	NO

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_12, Date: 22-Aug-2017, Time: 12:49:48, ID: IPA, Description: IPA

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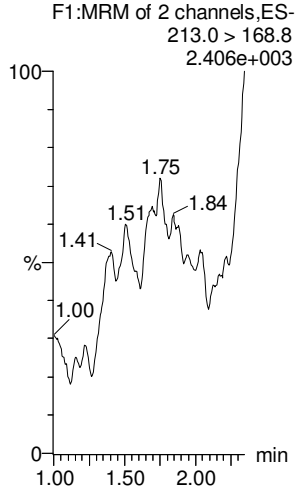

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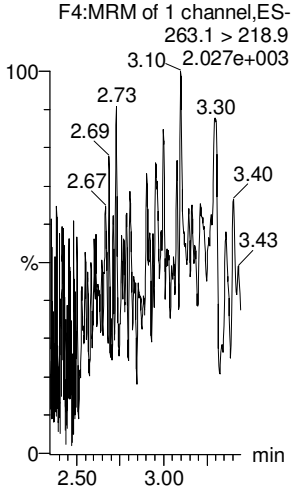

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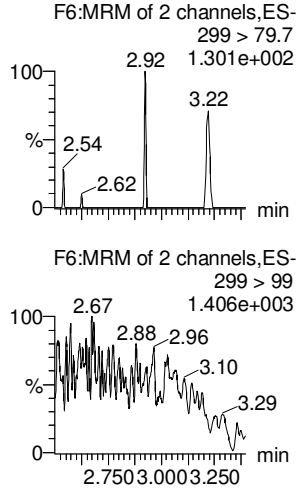

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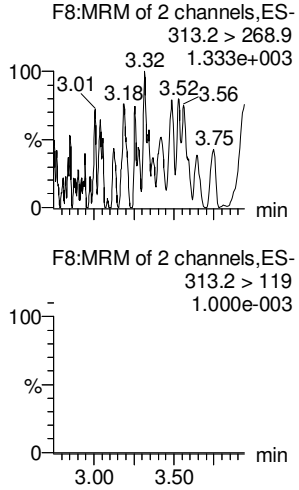

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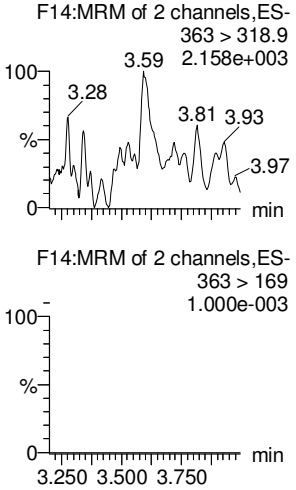

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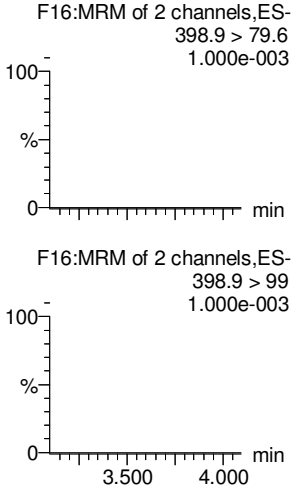

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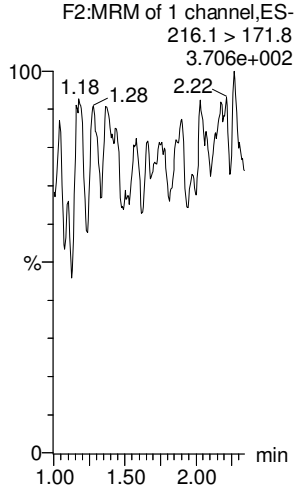

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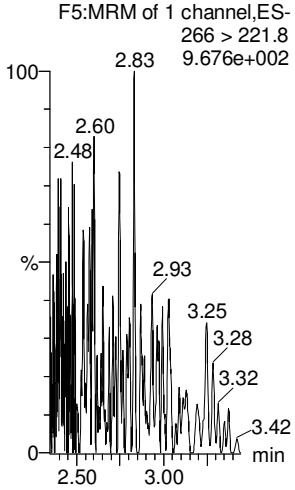

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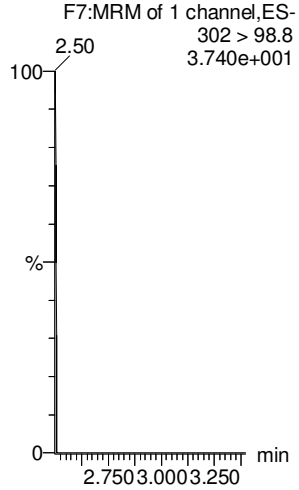

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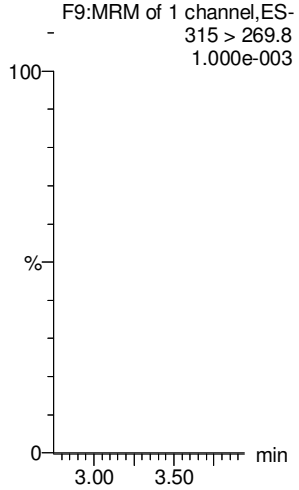

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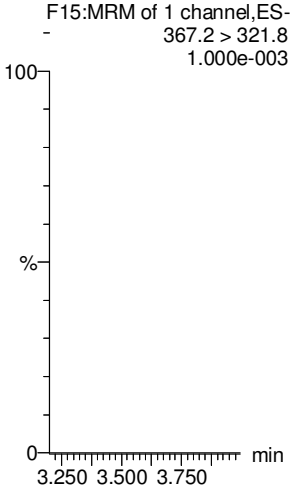
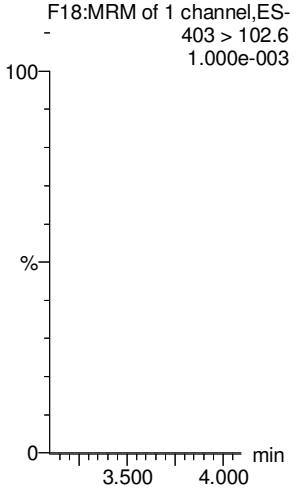


18O2-PFHxS



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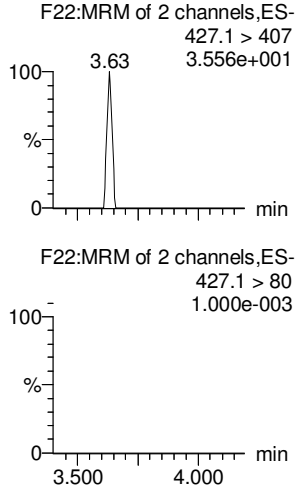
6:2 FTS



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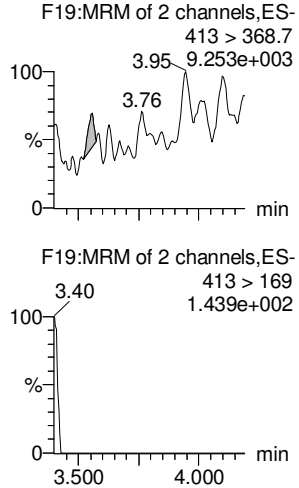

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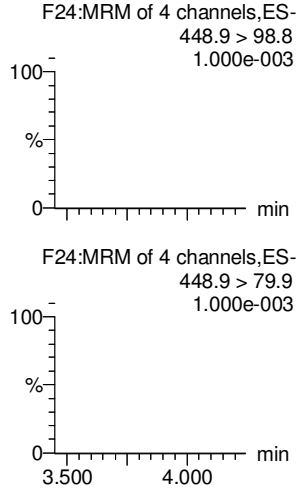

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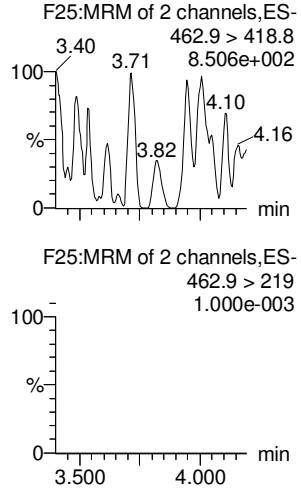

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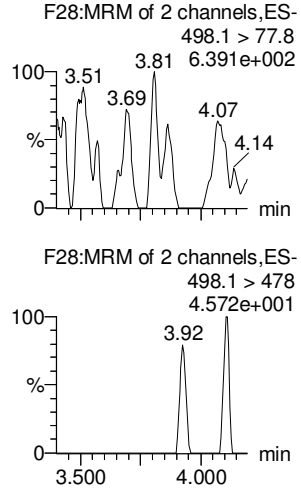
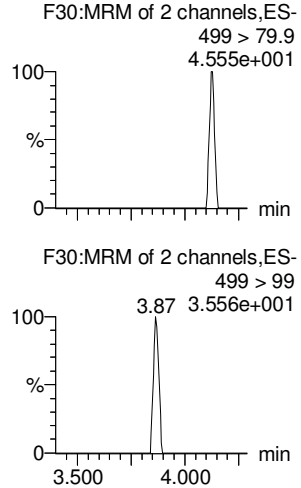


PFOS



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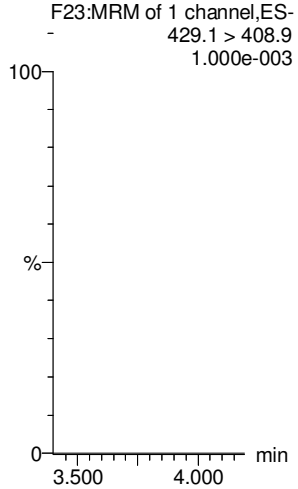

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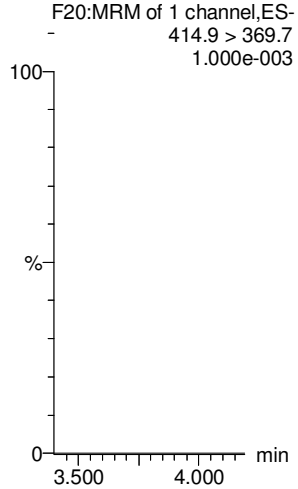

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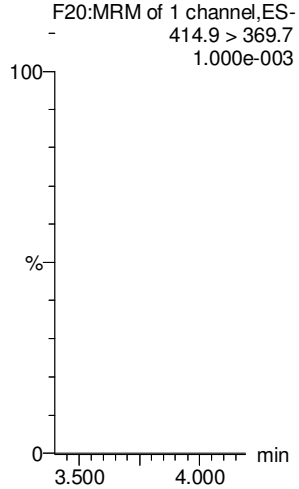

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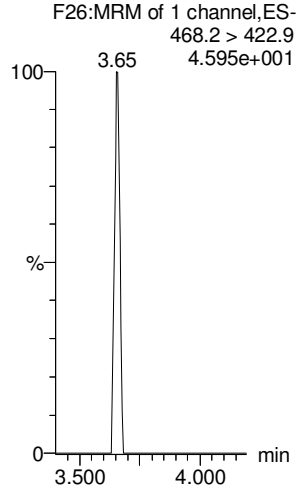

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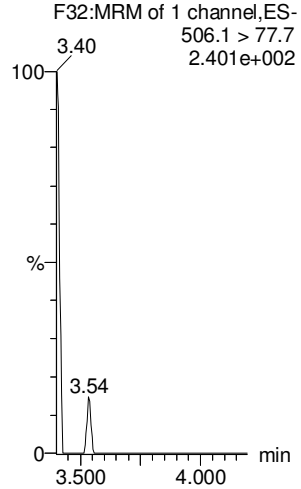
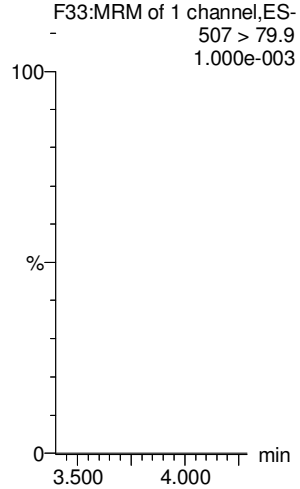


13C8-PFOS



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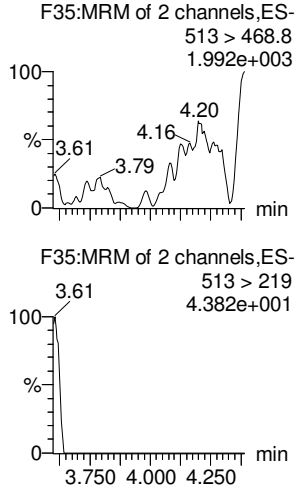
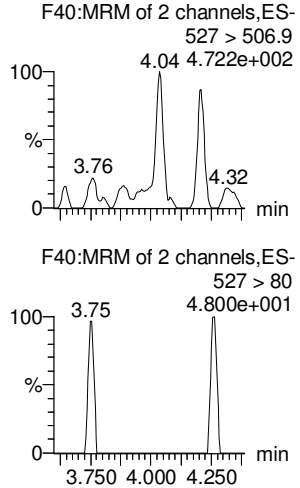
Name: 170822M1_12, Date: 22-Aug-2017, Time: 12:49:48, ID: IPA, Description: IPA

PFDA



8:2 FTS



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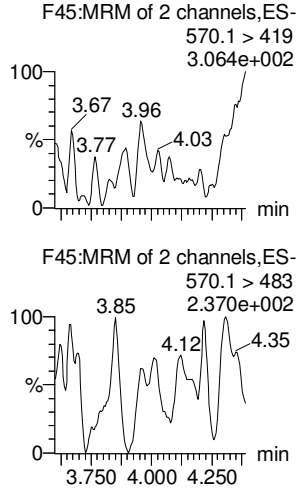

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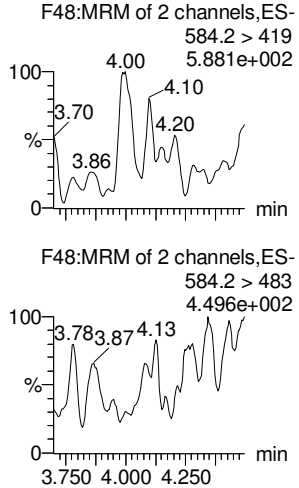

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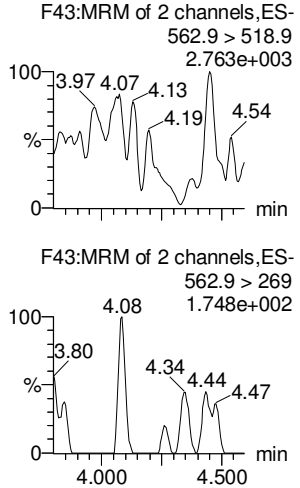
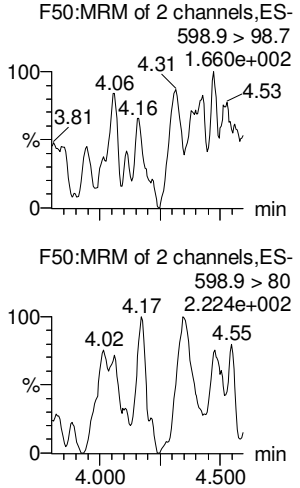
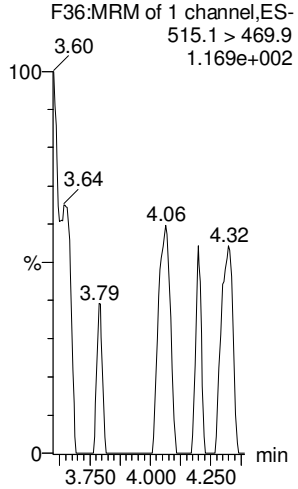


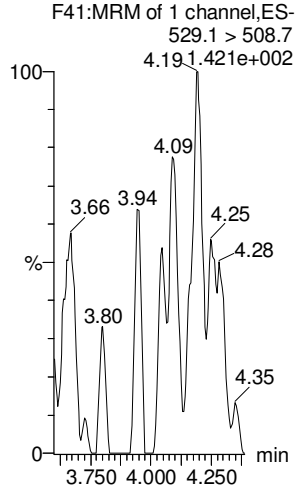
PFDS



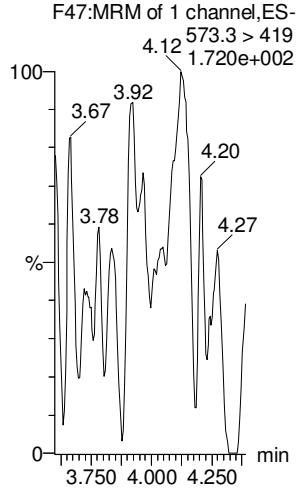
13C2-PFDA



13C2-8:2 FTS



d3-N-MeFOSAA



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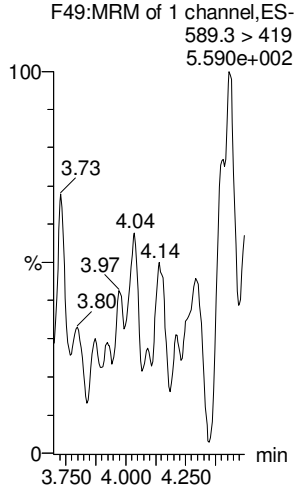

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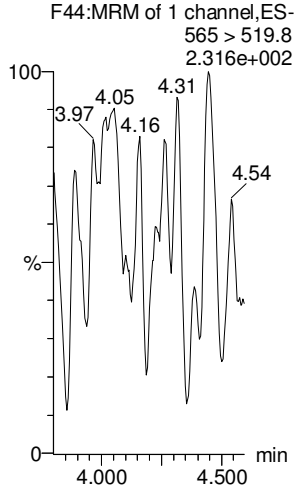

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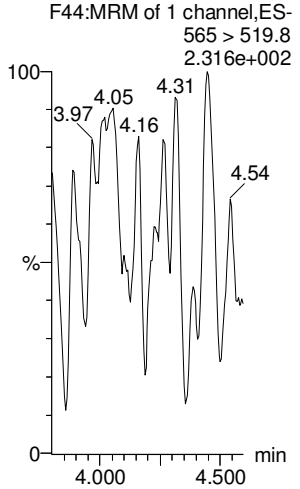


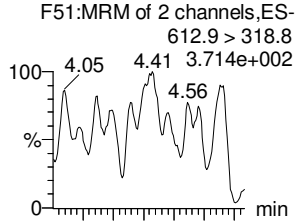
Vista Analytical Laboratory

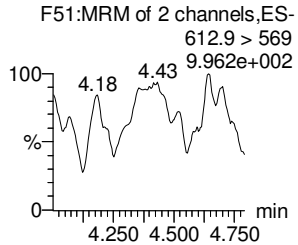
Dataset: U:\Q4.PRO\results\170822M1\170822M1-12.qld

Last Altered: Tuesday, August 22, 2017 13:56:30 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:57:23 Pacific Daylight Time

Name: 170822M1_12, Date: 22-Aug-2017, Time: 12:49:48, ID: IPA, Description: IPA

PFDoA





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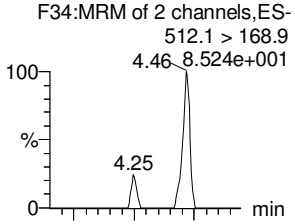
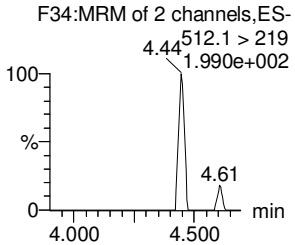
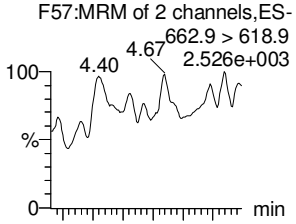
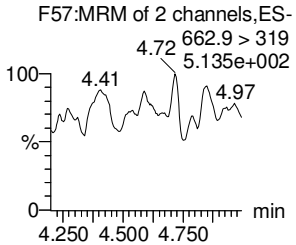


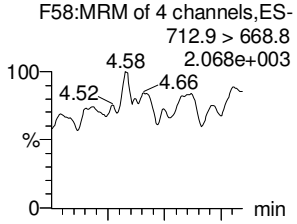


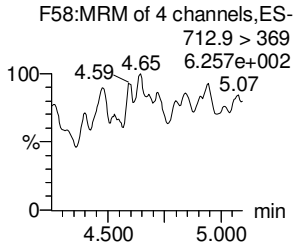
PFTrDA





PFTeDA





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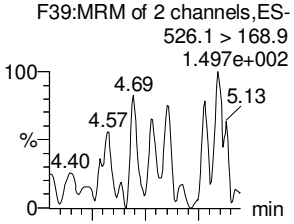

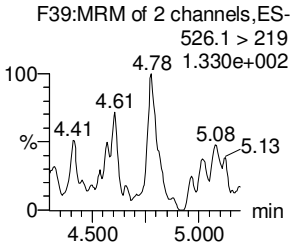

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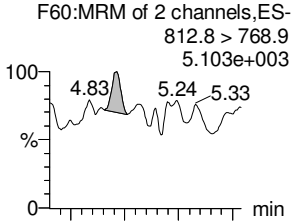

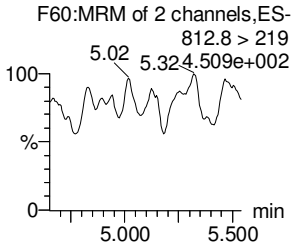

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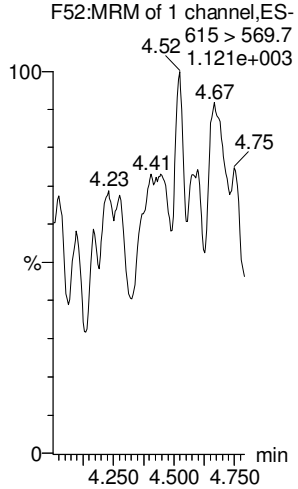
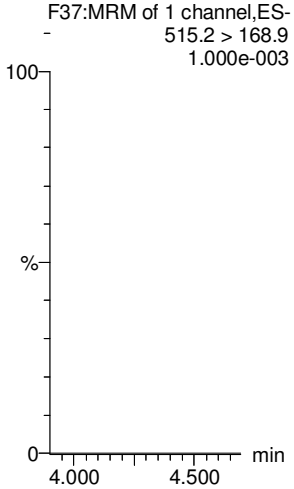


d3-N-MeFOSA



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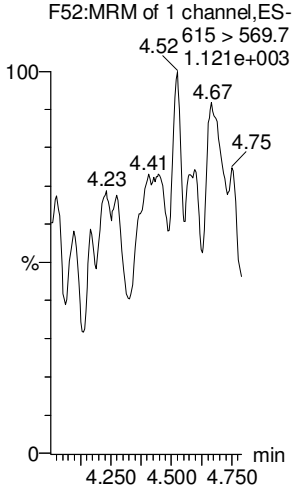

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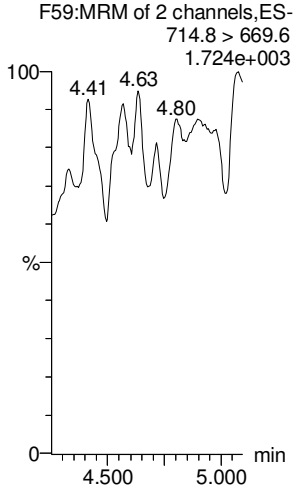

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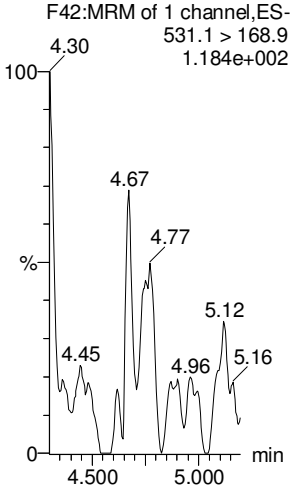
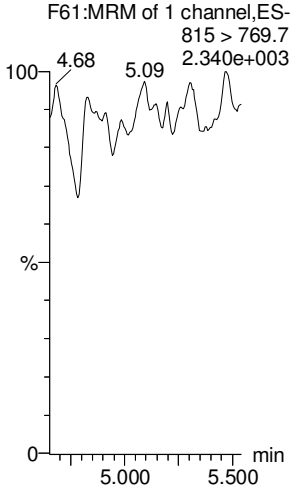


13C2-PFHxDA



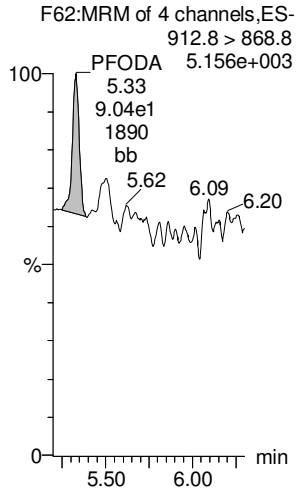
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-12.qld

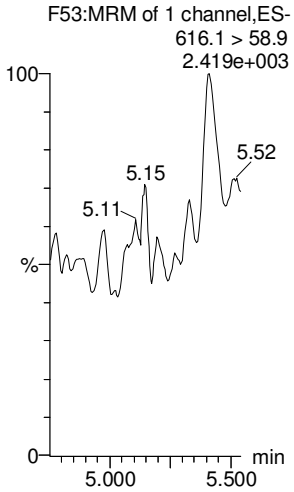
Last Altered: Tuesday, August 22, 2017 13:56:30 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:57:23 Pacific Daylight Time

Name: 170822M1_12, Date: 22-Aug-2017, Time: 12:49:48, ID: IPA, Description: IPA

PFODA



N-MeFOSE



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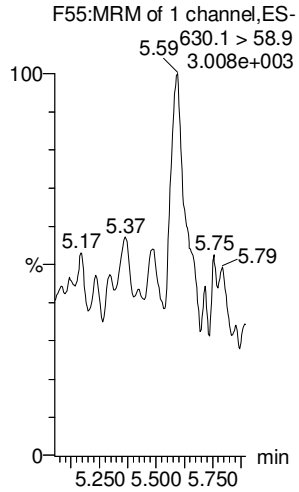

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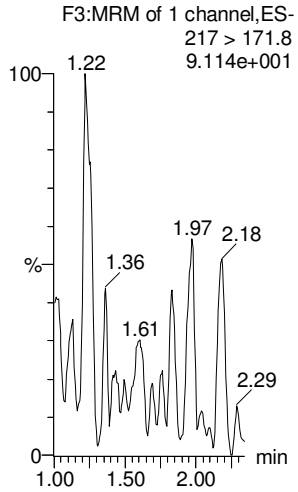

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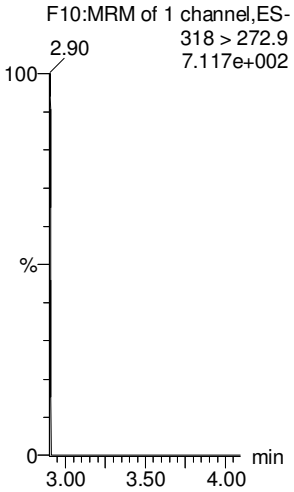

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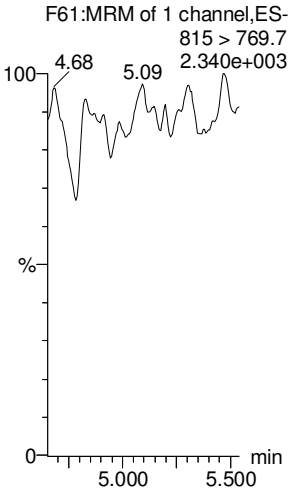

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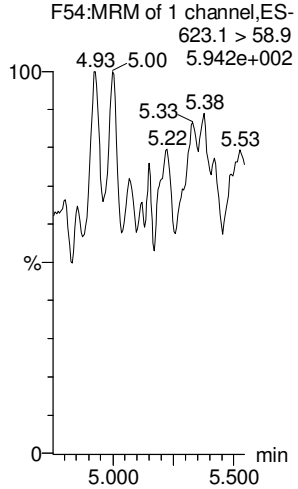

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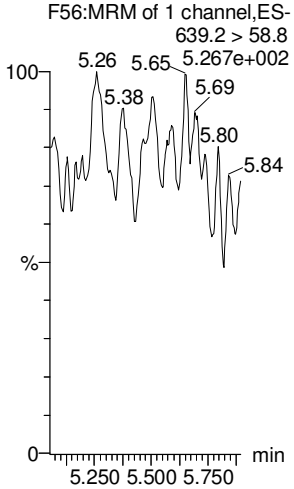

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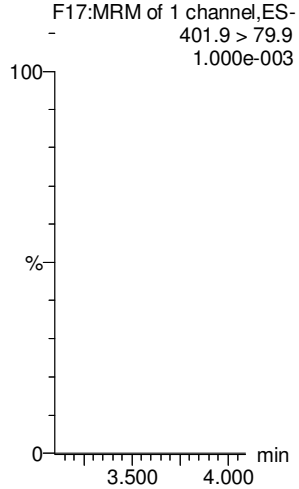

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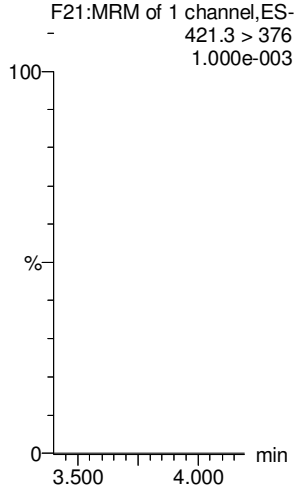

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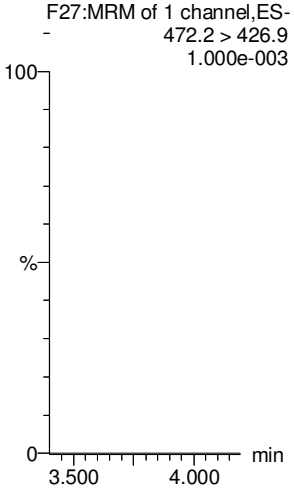

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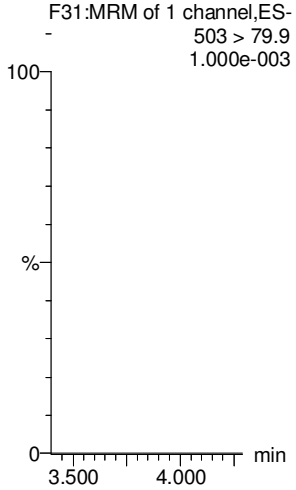
Last Altered: Tuesday, August 22, 2017 13:56:30 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:57:23 Pacific Daylight Time

Name: 170822M1_12, Date: 22-Aug-2017, Time: 12:49:48, ID: IPA, Description: IPA

13C4-PFOS



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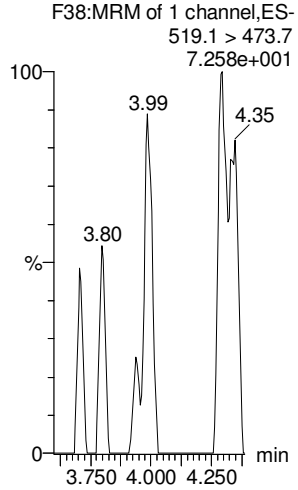
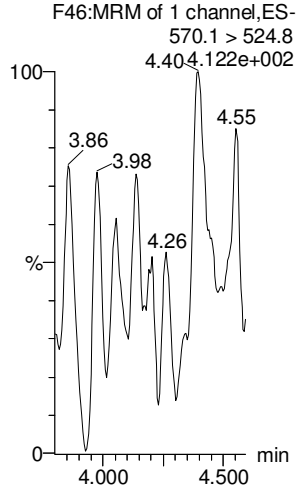


13C7-PFUnA



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-60.qld

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Printed: Wednesday, August 23, 2017 09:21:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

AC 8/23/17

Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	1	PFBA	213.0 > 168.8	1.28e4	1.48e4		1.26	1.34	10.9	9.62	96.2	70-130
2	2	PFPeA	263.1 > 218.9	2.22e4	2.73e4		2.53	2.61	10.1	10.1	100.6	
3	3	PFBS	299 > 79.7	4.70e3	3.35e3		2.89	2.85	17.5	9.90	99.0	
4	4	PFHxA	313.2 > 268.9	3.75e4	1.29e4		3.14	3.11	14.5	10.5	105.0	
5	5	PFHpA	363 > 318.9	3.64e4	3.70e4		3.40	3.38	12.3	10.4	104.1	
6	6	PFHxS	398.9 > 79.6	4.11e3	3.11e3		3.41	3.46	16.5	10.3	103.2	
7	7	6:2 FTS	427.1 > 407	8.73e3	1.01e4		3.59	3.57	10.8	10.2	101.7	
8	8	PFOA	413 > 368.7	5.44e4	6.15e4		3.59	3.58	11.0	10.7	107.0	
9	9	PFHpS	448.9 > 98.8	5.10e3	6.15e4		3.60	3.64	1.04	12.0	119.9	
10	10	PFNA	462.9 > 418.8	6.38e4	7.15e4		3.75	3.77	11.2	10.9	108.6	
11	11	PFOSA	498.1 > 77.8	8.04e3	9.13e3		3.79	3.77	11.0	10.6	106.1	
12	12	PFOS	499 > 79.9	1.08e4	1.28e4		3.80	3.82	10.6	9.79	97.9	
13	13	PFDA	513 > 468.8	7.17e4	7.97e4		3.96	3.94	11.2	10.3	103.1	
14	14	8:2 FTS	527 > 506.9	8.68e3	6.95e3		3.95	3.93	15.6	11.6	115.8	
15	15	N-MeFOSAA	570.1 > 419	1.89e4	1.58e4		3.92	3.97	194	10.3	102.7	
16	16	N-EtFOSAA	584.2 > 419	1.46e4	1.56e4		3.97	4.04	152	9.93	99.3	
17	17	PFUnA	562.9 > 518.9	4.83e4	8.88e4		4.12	4.11	6.79	8.51	85.1	
18	18	PFDS	598.9 > 98.7	4.97e3	8.88e4		4.17	4.15	0.700	8.82	88.2	
19	19	PFDoA	612.9 > 318.8	4.74e3	6.80e3		4.28	4.26	8.72	10.4	104.0	
20	20	N-MeFOSA	512.1 > 168.9	1.40e4	4.00e4		4.14	4.22	52.5	52.6	105.2	
21	21	PFTrDA	662.9 > 618.9	6.37e4	6.80e3		4.45	4.43	117	12.1	121.2	
22	22	PFTeDA	712.9 > 668.8	4.30e4	4.37e4		4.54	4.61	12.3	10.2	101.5	
23	23	N-EtFOSA	526.1 > 168.9	1.70e4	5.38e4		4.71	4.80	47.4	54.6	109.3	
24	24	PFHxDA	812.8 > 768.9	7.08e4	2.39e4		5.03	4.98	14.8	10.4	104.5	
25	25	PFODA	912.8 > 868.8	5.45e4	2.39e4		5.37	5.36	11.4	10.9	109.5	
26	26	N-MeFOSE	616.1 > 58.9	2.07e4	6.15e4		5.26	5.42	50.6	50.6	101.2	
27	27	N-EtFOSE	630.1 > 58.9	2.31e4	6.09e4		5.58	5.60	56.8	51.4	102.7	
28	28	13C3-PFBA	216.1 > 171.8	1.48e4	1.61e4	0.915	1.26	1.33	11.5	12.5	100.4	50-150
29	29	13C3-PFPeA	266 > 221.8	2.73e4	4.29e4	0.256	2.53	2.61	3.18	12.4	99.4	
30	30	13C3-PFBS	302 > 98.8	3.35e3	4.29e4	0.032	2.89	2.85	0.391	12.4	99.1	
31	31	13C2-PFHxA	315 > 269.8	1.29e4	4.29e4	0.304	3.14	3.11	1.50	4.95	99.0	

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Dataset: U:\Q4.PRO\results\170822M1\170822M1-60.qld

Last Altered: Wednesday, August 23, 2017 09:20:51 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:21:02 Pacific Daylight Time

Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	3.70e4	4.29e4	0.341	3.40	3.38	4.31	12.6	101.0
33	33	18O2-PFHxS	403 > 102.6	3.11e3	7.61e3	0.445	3.41	3.45	5.11	11.5	91.9
34	34	13C2-6:2 FTS	429.1 > 408.9	1.01e4	6.10e4	0.194	3.59	3.57	2.07	10.7	85.6
35	35	13C2-PFOA	414.9 > 369.7	6.15e4	6.10e4	1.081	3.59	3.59	12.6	11.7	93.3
36	36	13C5-PFNA	468.2 > 422.9	7.15e4	7.51e4	0.908	3.75	3.77	11.9	13.1	104.9
37	37	13C8-PFOSA	506.1 > 77.7	9.13e3	8.00e4	0.130	3.79	3.77	1.43	11.0	87.9
38	38	13C8-PFOS	507 > 79.9	1.28e4	1.23e4	1.076	3.77	3.82	13.0	12.1	97.0
39	39	13C2-PFDA	515.1 > 469.9	7.97e4	8.05e4	1.002	3.96	3.94	12.4	12.4	98.8
40	40	13C2-8:2 FTS	529.1 > 508.7	6.95e3	8.05e4	0.110	3.95	3.93	1.08	9.78	78.3
41	41	d3-N-MeFOSAA	573.3 > 419	1.58e4	8.00e4	0.016	3.99	3.97	2.47	157	96.8
42	42	d5-N-EtFOSAA	589.3 > 419	1.56e4	8.00e4	0.015	4.06	4.04	2.44	157	96.9
43	43	13C2-PFUnA	565 > 519.8	8.88e4	8.00e4	1.045	4.12	4.11	13.9	13.3	106.2
44	44	13C2-PFDoA	615 > 569.7	6.80e3	8.00e4	0.101	4.29	4.26	1.06	10.6	84.5
45	45	d3-N-MeFOSA	515.2 > 168.9	4.00e4	8.00e4	0.048	4.19	4.26	6.25	131	87.4
46	46	13C2-PFTeDA	714.8 > 669.6	4.37e4	8.00e4	0.583	4.54	4.61	6.83	11.7	93.8
47	47	d5-N-ETFOSA	531.1 > 168.9	5.38e4	8.00e4	0.067	4.76	4.84	8.41	125	83.3
48	48	13C2-PFHxDA	815 > 769.7	2.39e4	8.00e4	0.774	5.03	4.98	3.74	4.83	96.5
49	49	d7-N-MeFOSE	623.1 > 58.9	6.15e4	8.00e4	0.074	5.26	5.41	9.60	130	86.6
50	50	d9-N-EtFOSE	639.2 > 58.8	6.09e4	8.00e4	0.075	5.58	5.58	9.51	127	84.5
51	51	13C4-PFBA	217 > 171.8	1.61e4	1.61e4	1.000	1.26	1.33	12.5	12.5	100.0
52	52	13C5-PFHxA	318 > 272.9	4.29e4	4.29e4	1.000	3.14	3.11	5.00	5.00	100.0
53	53	13C3-PFHxS	401.9 > 79.9	7.61e3	7.61e3	1.000	3.41	3.46	12.5	12.5	100.0
54	54	13C8-PFOA	421.3 > 376	6.10e4	6.10e4	1.000	3.55	3.58	12.5	12.5	100.0
55	55	13C9-PFNA	472.2 > 426.9	7.51e4	7.51e4	1.000	3.79	3.76	12.5	12.5	100.0
56	56	13C4-PFOS	503 > 79.9	1.23e4	1.23e4	1.000	3.77	3.82	12.5	12.5	100.0
57	57	13C6-PFDA	519.1 > 473.7	8.05e4	8.05e4	1.000	3.95	3.94	12.5	12.5	100.0
58	58	13C7-PFUnA	570.1 > 524.8	8.00e4	8.00e4	1.000	4.12	4.11	12.5	12.5	100.0

50-150

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, August 23, 2017 09:43:45 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:43:57 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170822M1_1	IPA	22-Aug-17	10:51:41
2	170822M1_2	ST170822M1-1 PFC CS-2 17H2202	22-Aug-17	11:02:26
3	170822M1_3	ST170822M1-2 PFC CS-1 17H2203	22-Aug-17	11:13:04
4	170822M1_4	ST170822M1-3 PFC CS0 17H2204	22-Aug-17	11:23:42
5	170822M1_5	ST170822M1-4 PFC CS1 17H2205	22-Aug-17	11:34:29
6	170822M1_6	ST170822M1-5 PFC CS2 17H2206	22-Aug-17	11:45:07
7	170822M1_7	ST170822M1-6 PFC CS3 17H2207	22-Aug-17	11:55:45
8	170822M1_8	ST170822M1-7 PFC CS4 17H2208	22-Aug-17	12:06:39
9	170822M1_9	ST170822M1-8 PFC CS5 17H2209	22-Aug-17	12:17:36
10	170822M1_10	ST170822M1-9 PFC CS6 17H2232	22-Aug-17	12:28:17
11	170822M1_11	ST170822M1-10 PFC CS7 17H2231	22-Aug-17	12:39:01
12	170822M1_12	IPA	22-Aug-17	12:49:48
13	170822M1_13	ICV170822M1-1 PFC ICV 17H2201	22-Aug-17	13:00:26
14	170822M1_14	B7H0066-BS1 OPR 0.125	22-Aug-17	13:11:13
15	170822M1_15	B7H0069-BS1 OPR 0.25	22-Aug-17	13:22:00
16	170822M1_16	IPA	22-Aug-17	13:32:45
17	170822M1_17	B7H0066-BLK1 Method Blank 0.125	22-Aug-17	13:43:32
18	170822M1_18	B7H0069-BLK1 Method Blank 0.25	22-Aug-17	13:54:18
19	170822M1_19	B7H0066-MS1 Matrix Spike 0.11555	22-Aug-17	14:04:57
20	170822M1_20	B7H0066-MSD1 Matrix Spike Dup 0.11567	22-Aug-17	14:15:35
21	170822M1_21	B7H0066-MS2 Matrix Spike 0.11836	22-Aug-17	14:26:21
22	170822M1_22	B7H0066-MSD2 Matrix Spike Dup 0.11729	22-Aug-17	14:37:00
23	170822M1_23	B7H0069-MS1 Matrix Spike 0.1193	22-Aug-17	14:47:46
24	170822M1_24	B7H0069-MSD1 Matrix Spike Dup 0.11433	22-Aug-17	14:58:33
25	170822M1_25	1701011-01 06302140000900_2017 0.11617	22-Aug-17	15:09:16
26	170822M1_26	1701011-02 06302140002050_2017 0.11859	22-Aug-17	15:20:00
27	170822M1_27	1701011-03 06302140002100_2017 0.11904	22-Aug-17	15:30:46
28	170822M1_28	1701011-04 06302810002200_2017 0.11477	22-Aug-17	15:41:53
29	170822M1_29	1701011-05 064W5000002700_2017 0.11543	22-Aug-17	15:53:06
30	170822M1_30	1701011-06 FD-01 0.12004	22-Aug-17	16:03:50
31	170822M1_31	1701011-07 FD-02 0.11727	22-Aug-17	16:14:37

Dataset: Untitled

Last Altered: Wednesday, August 23, 2017 09:43:45 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:43:57 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170822M1_32	1701013-04@5X 064A3000000100_2017 0.1...	22-Aug-17	16:25:15
33	170822M1_33	IPA	22-Aug-17	16:40:37
34	170822M1_34	1701013-05 064A3500005900_2017 0.12037	22-Aug-17	16:51:21
35	170822M1_35	IPA	22-Aug-17	17:01:59
36	170822M1_36	ST170822M1-11 PFC CS3 17H2207	22-Aug-17	17:12:38
37	170822M1_37	IPA	22-Aug-17	17:23:24
38	170822M1_38	B7H0050-BS1 OPR 0.125	22-Aug-17	17:34:03
39	170822M1_39	IPA	22-Aug-17	17:44:41
40	170822M1_40	B7H0050-BLK1 Method Blank 0.125	22-Aug-17	17:55:20
41	170822M1_41	1700981-03 FT02-FT1 0.02258	22-Aug-17	18:10:57
42	170822M1_42	1700981-04 FT02-SVE1-2 0.02246	22-Aug-17	18:21:35
43	170822M1_43	IPA	22-Aug-17	18:32:22
44	170822M1_44	1700981-05 FT02-FT8W 0.02432	22-Aug-17	18:43:00
45	170822M1_45	IPA	22-Aug-17	18:53:39
46	170822M1_46	1700981-06 FT02-FT3 0.0196	22-Aug-17	19:04:25
47	170822M1_47	IPA	22-Aug-17	19:15:03
48	170822M1_48	1700981-07 FT02-FT4S 0.0216	22-Aug-17	19:25:42
49	170822M1_49	IPA	22-Aug-17	19:36:20
50	170822M1_50	1700981-08 FT02-SVE2-8 0.02204	22-Aug-17	19:47:07
51	170822M1_51	IPA	22-Aug-17	19:57:53
52	170822M1_52	1700981-04@5X FT02-SVE1-2 0.02246	22-Aug-17	20:08:40
53	170822M1_53	IPA	22-Aug-17	20:19:18
54	170822M1_54	1700981-05@5X FT02-FT8W 0.02432	22-Aug-17	20:29:56
55	170822M1_55	IPA	22-Aug-17	20:40:35
56	170822M1_56	1700981-06@5X FT02-FT3 0.0196	22-Aug-17	20:51:13
57	170822M1_57	IPA	22-Aug-17	21:01:52
58	170822M1_58	1700981-07@5X FT02-FT4S 0.0216	22-Aug-17	21:12:30
59	170822M1_59	IPA	22-Aug-17	21:23:09
60	170822M1_60	ST170822M1-12 PFC CS3 17H2207	22-Aug-17	21:33:55
61	170822M1_61	IPA	22-Aug-17	21:44:33
62	170822M1_62	1700981-08@20X FT02-SVE2-8 0.02204	22-Aug-17	21:55:11
63	170822M1_63	IPA	22-Aug-17	22:05:50
64	170822M1_64	1700980-07 IR10MW31A1-080217 0.12279	22-Aug-17	22:16:39
65	170822M1_65	1700980-08 IR10MW31A1-080217-D 0.11964	22-Aug-17	22:27:31

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, August 23, 2017 09:43:45 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:43:57 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	170822M1_66	1700980-09 080217-ER-01 0.11911	22-Aug-17	22:38:09
67	170822M1_67	1700980-10 080217-SB-01 0.11909	22-Aug-17	22:48:56
68	170822M1_68	IPA	22-Aug-17	22:59:34
69	170822M1_69	ST170822M1-13 PFC CS0 17H2204	22-Aug-17	23:10:12
70	170822M1_70	IPA	22-Aug-17	23:20:59
71	170822M1_71	B7H0126-BS1 OPR 0.125	22-Aug-17	23:31:37
72	170822M1_72	B7H0130-BS1 OPR 0.125	22-Aug-17	23:42:24
73	170822M1_73	IPA	22-Aug-17	23:53:02
74	170822M1_74	B7H0125-BLK1 Method Blank 0.125	23-Aug-17	00:03:41
75	170822M1_75	B7H0125-BLK2 Method Blank 0.125	23-Aug-17	00:14:27
76	170822M1_76	B7H0126-BLK1 Method Blank 0.125	23-Aug-17	00:25:14
77	170822M1_77	B7H0127-BLK1 Method Blank 0.125	23-Aug-17	00:35:53
78	170822M1_78	B7H0130-BLK1 Method Blank 0.125	23-Aug-17	00:46:40
79	170822M1_79	1701078-01 SVE 2-8 0.125	23-Aug-17	00:57:27
80	170822M1_80	1701078-02 SVE 3-13 0.125	23-Aug-17	01:08:14
81	170822M1_81	B7H0127-BS1 OPR 0.125	23-Aug-17	01:19:00
82	170822M1_82	B7H0127-BS2 OPR 0.125	23-Aug-17	01:29:47
83	170822M1_83	B7H0127-BS3 OPR 0.125	23-Aug-17	01:40:34
84	170822M1_84	B7H0127-BS4 OPR 0.125	23-Aug-17	01:51:21
85	170822M1_85	IPA	23-Aug-17	02:02:06
86	170822M1_86	1701079-03RE1@20X VEL FOAM L3 0.125	23-Aug-17	02:12:49
87	170822M1_87	1701079-03RE1 VEL FOAM L3 0.125	23-Aug-17	02:23:39
88	170822M1_88	IPA	23-Aug-17	02:34:18
89	170822M1_89	1700962-02@80X West Tank 0.125	23-Aug-17	02:44:58
90	170822M1_90	1700962-02@40X West Tank 0.125	23-Aug-17	02:55:44
91	170822M1_91	IPA	23-Aug-17	03:06:32
92	170822M1_92	1700962-03@80X MiddleTank 0.125	23-Aug-17	03:17:18
93	170822M1_93	1700962-03@40X MiddleTank 0.125	23-Aug-17	03:28:05
94	170822M1_94	IPA	23-Aug-17	03:38:52
95	170822M1_95	1700974-12 MATP03038 0.125	23-Aug-17	03:49:39
96	170822M1_96	IPA	23-Aug-17	04:00:28
97	170822M1_97	ST170822M1-14 PFC CS3 17H2207	23-Aug-17	04:11:13
98	170822M1_98	IPA	23-Aug-17	04:22:00

Vista Analytical Laboratory

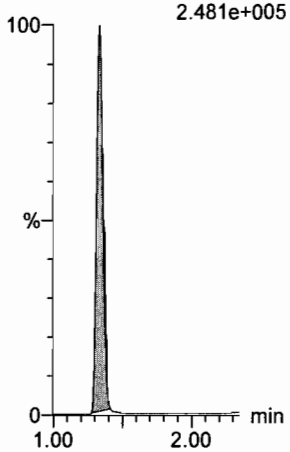
Dataset: U:\Q4.PRO\results\170822M1\170822M1-60.qld

Last Altered: Wednesday, August 23, 2017 09:20:51 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:21:02 Pacific Daylight Time

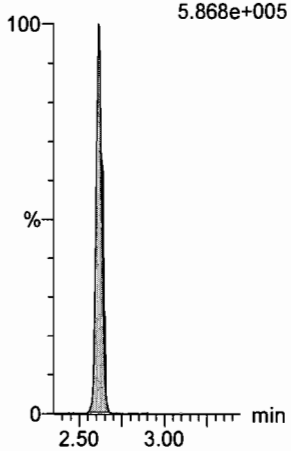
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

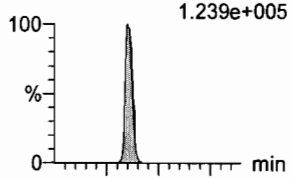
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
2.481e+005



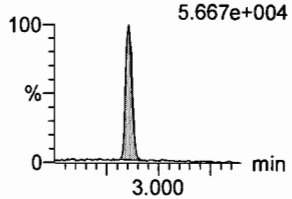
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
5.868e+005



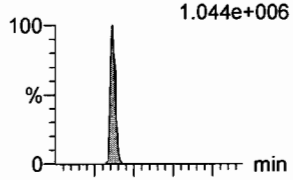
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
1.239e+005



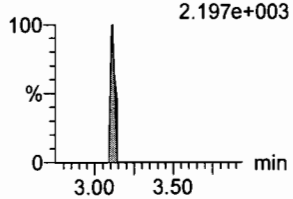
F6:MRM of 2 channels,ES-
299 > 99
5.667e+004



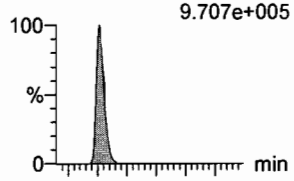
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
1.044e+006



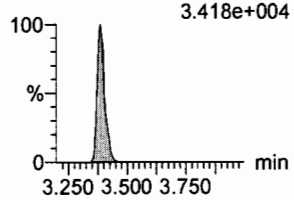
F8:MRM of 2 channels,ES-
313.2 > 119
2.197e+003



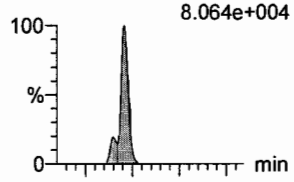
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
9.707e+005



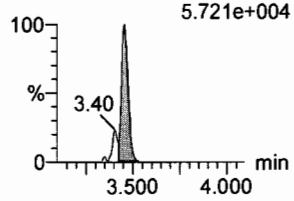
F14:MRM of 2 channels,ES-
363 > 169
3.418e+004



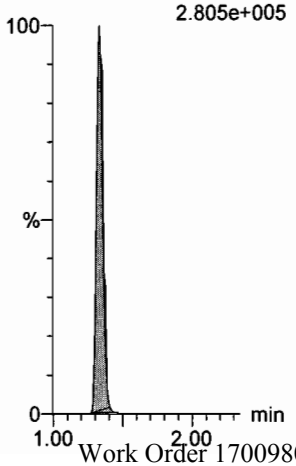
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
8.064e+004



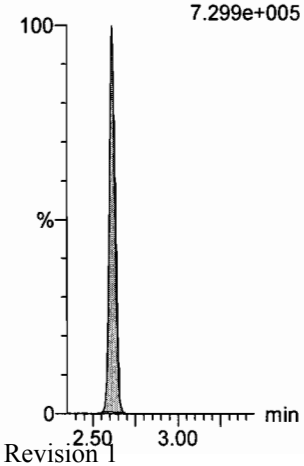
F16:MRM of 2 channels,ES-
398.9 > 99
5.721e+004



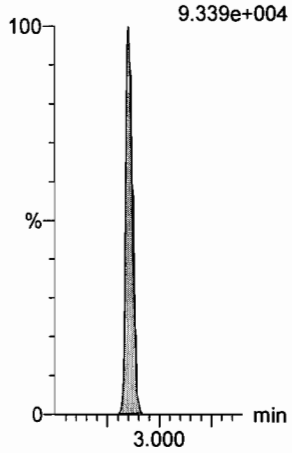
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.805e+005



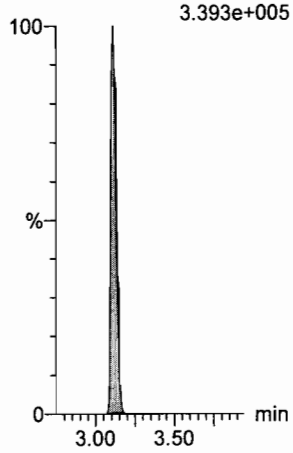
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
7.299e+005



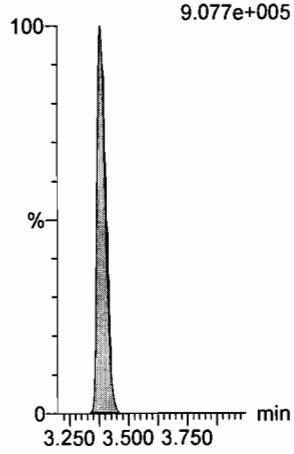
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
9.339e+004



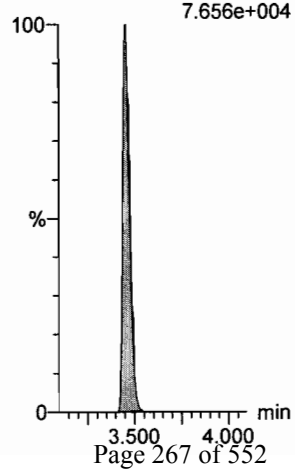
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.393e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
9.077e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
7.656e+004



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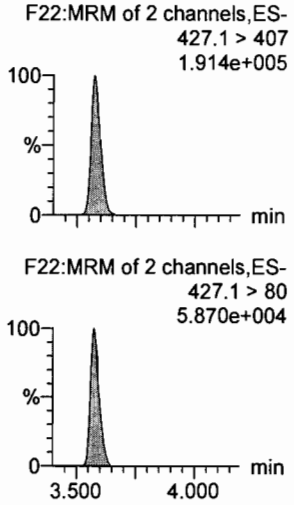
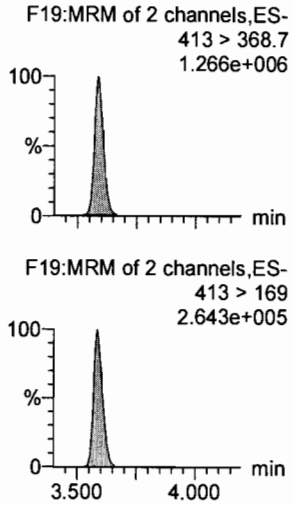
Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

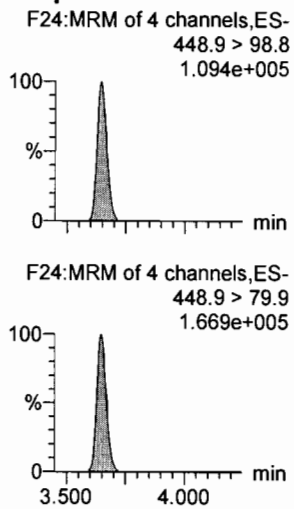
6:2 FTS



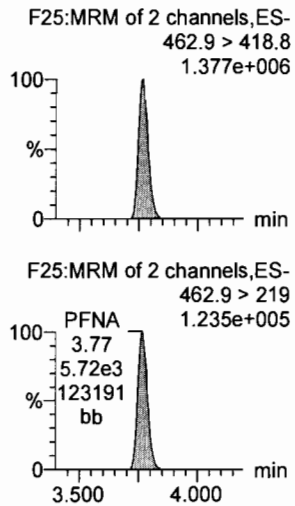
PFOA



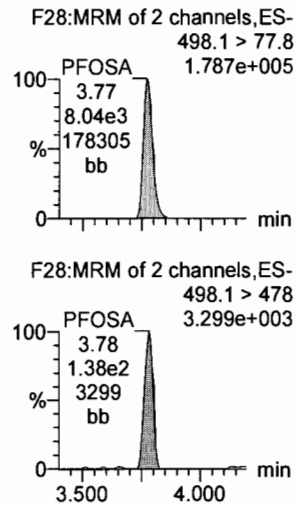
PFHpS



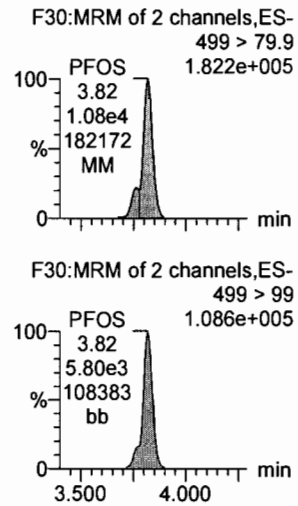
PFNA



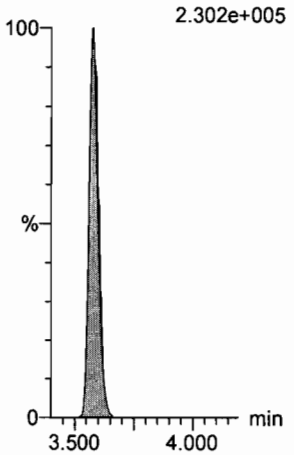
PFOSA



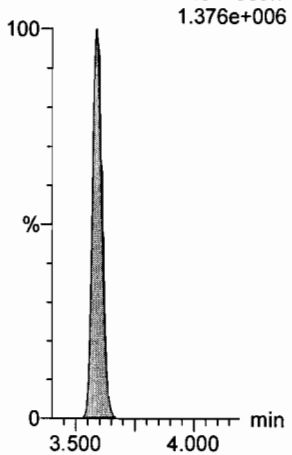
PFOS



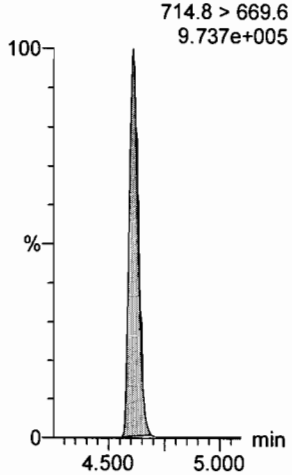
13C2-6:2 FTS



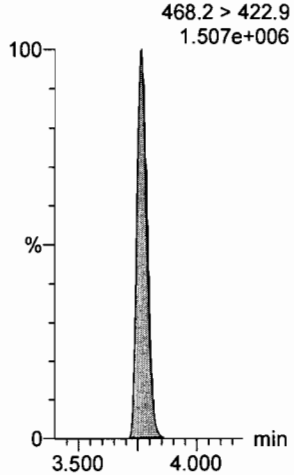
13C2-PFOA



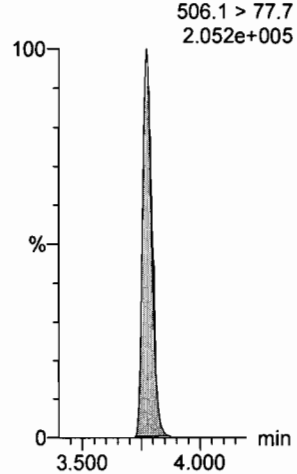
13C2-PFTeDA



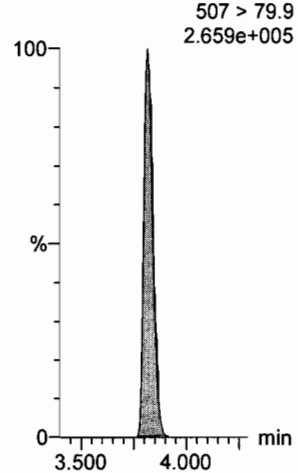
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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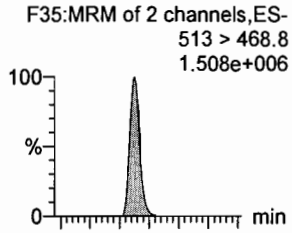
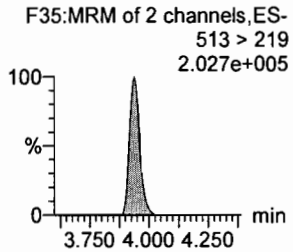
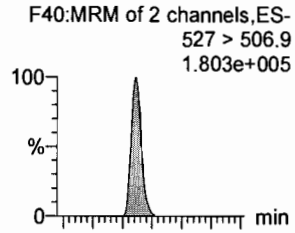
Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

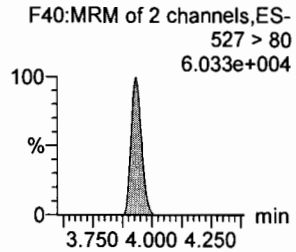
PFDA



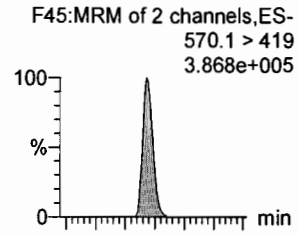


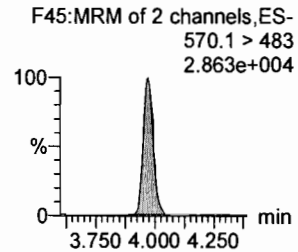
8:2 FTS



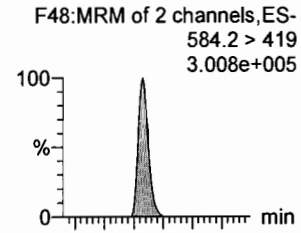


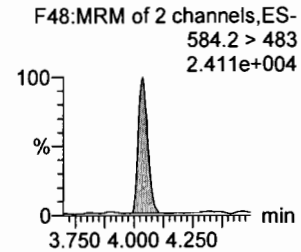
N-MeFOSAA



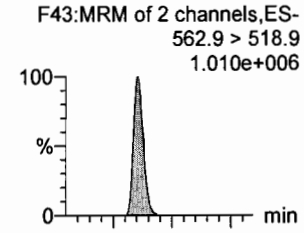


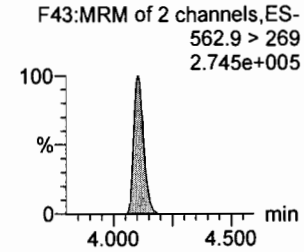
N-EtFOSAA



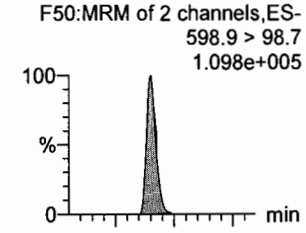


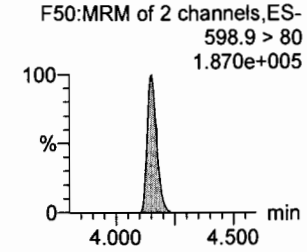
PFUnA



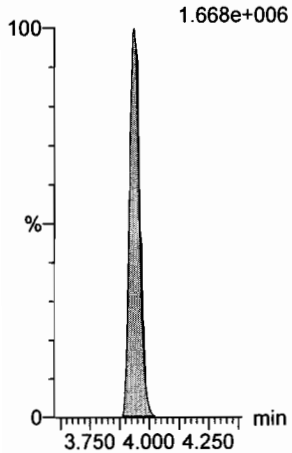


PFDS

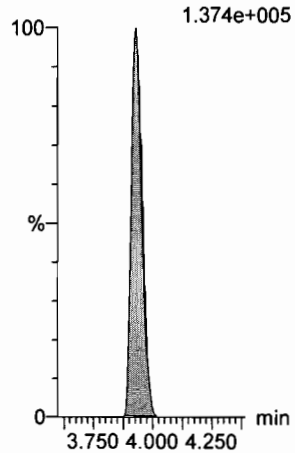




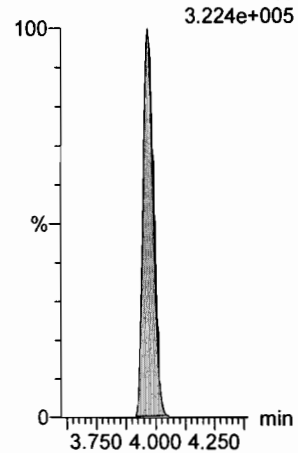
13C2-PFDA



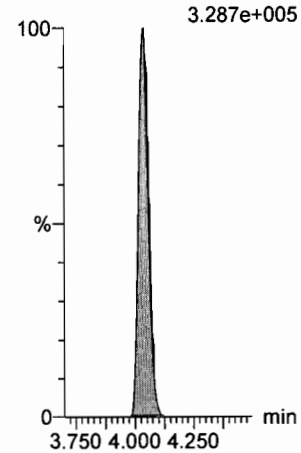
13C2-8:2 FTS



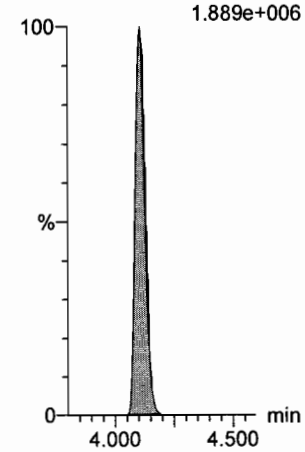
d3-N-MeFOSAA



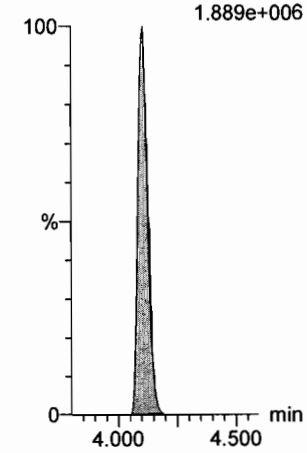
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



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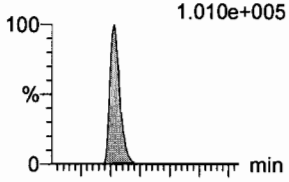
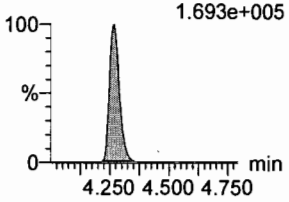
Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

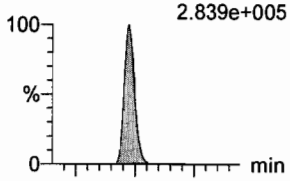
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
1.010e+005



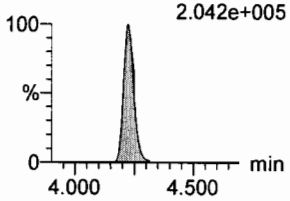
F51:MRM of 2 channels,ES-
612.9 > 569
1.693e+005



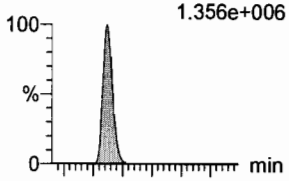
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
2.839e+005



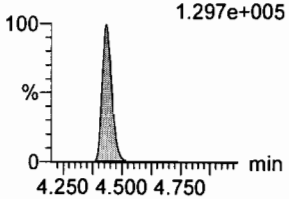
F34:MRM of 2 channels,ES-
512.1 > 219
2.042e+005



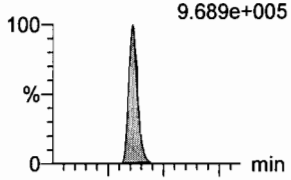
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
1.356e+006



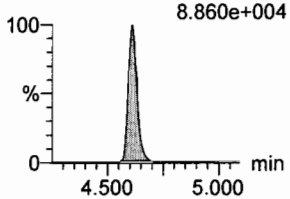
F57:MRM of 2 channels,ES-
662.9 > 319
1.297e+005



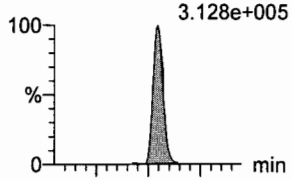
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
9.689e+005



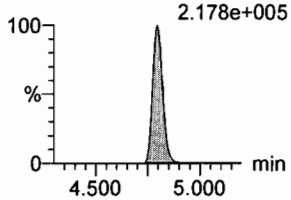
F58:MRM of 4 channels,ES-
712.9 > 369
8.860e+004



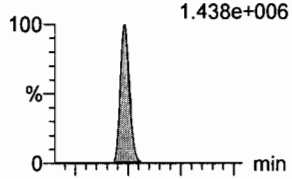
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
3.128e+005



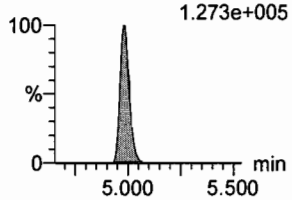
F39:MRM of 2 channels,ES-
526.1 > 219
2.178e+005



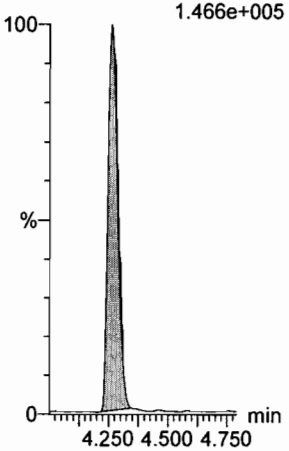
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
1.438e+006



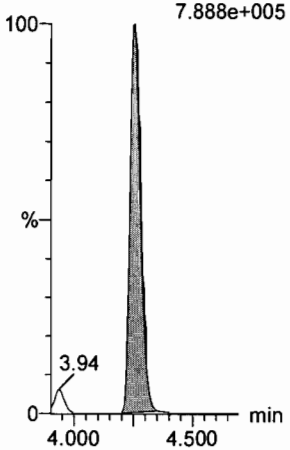
F60:MRM of 2 channels,ES-
812.8 > 219
1.273e+005



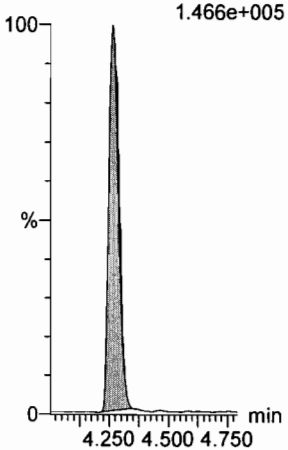
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.466e+005



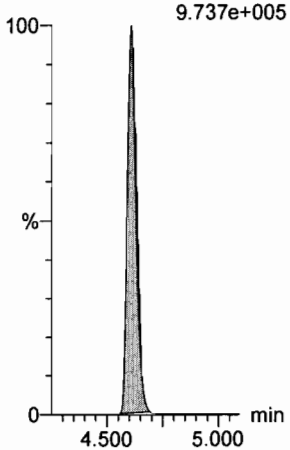
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
7.888e+005



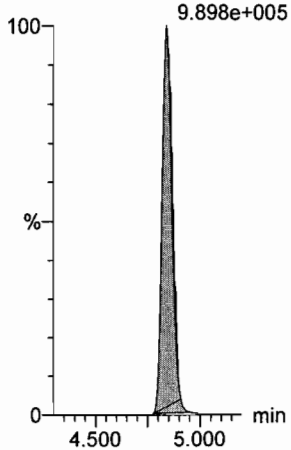
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.466e+005



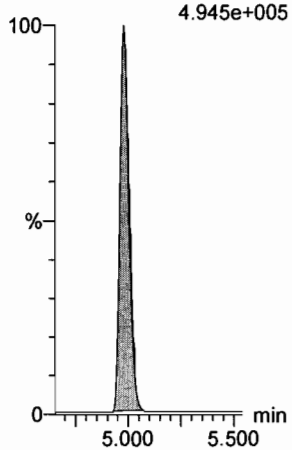
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
9.737e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
9.898e+005



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.945e+005



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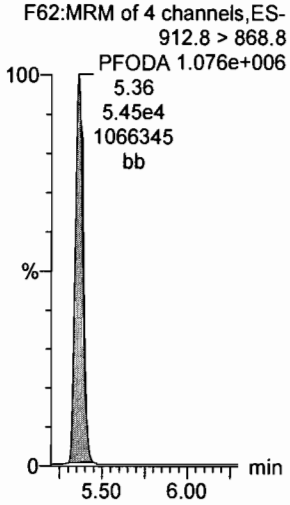
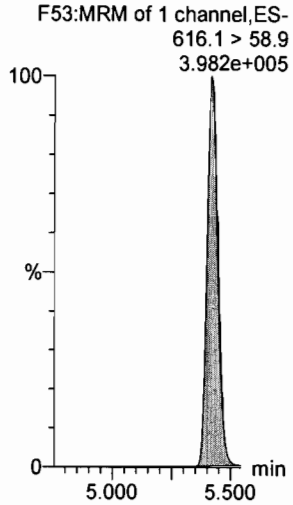
Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

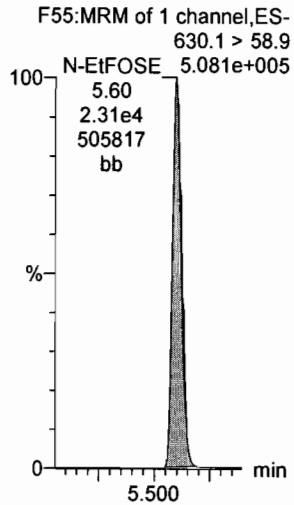
PFODA



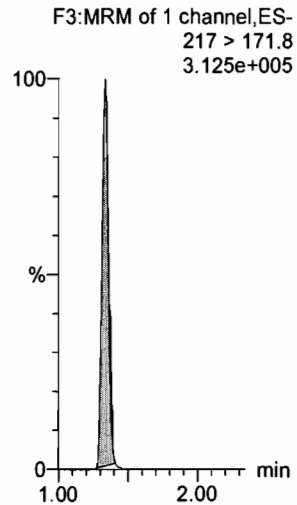
N-MeFOSE



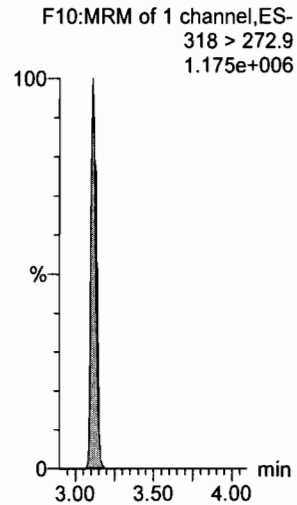
N-EtFOSE



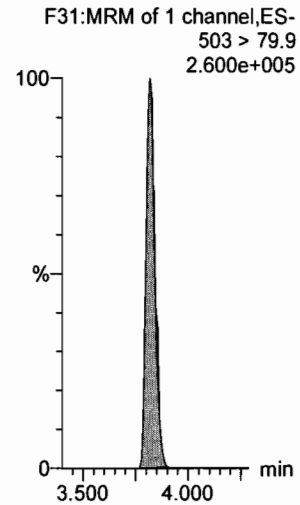
13C4-PFBA



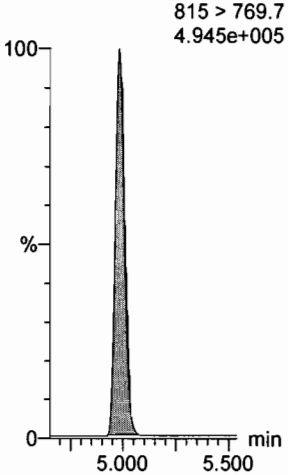
13C5-PFHxA



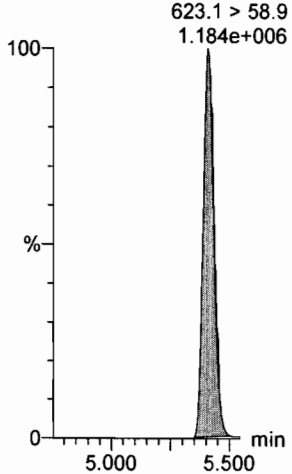
13C4-PFOS



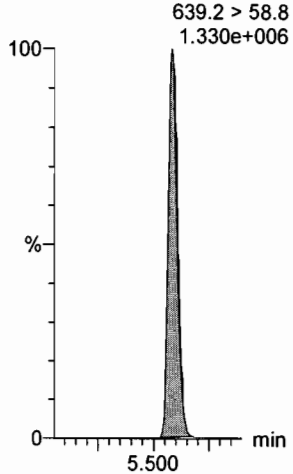
13C2-PFHxDA



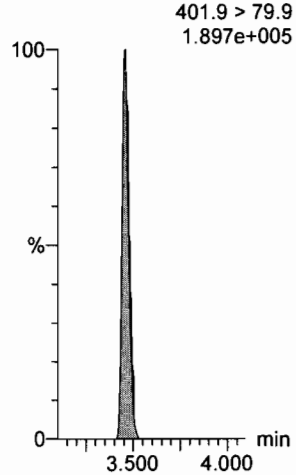
d7-N-MeFOSE



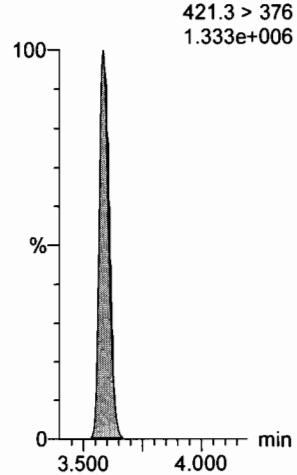
d9-N-EtFOSE



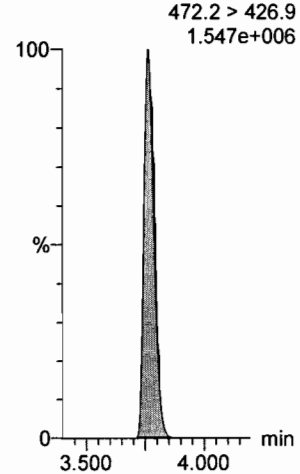
13C3-PFHxS



13C8-PFOA



13C9-PFNA

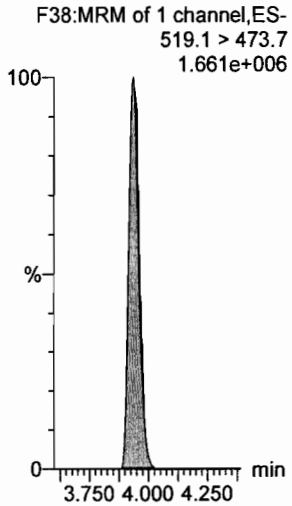


Dataset: U:\Q4.PRO\results\170822M1\170822M1-60.qld

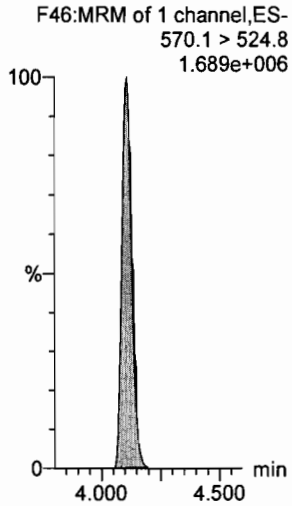
Last Altered: Wednesday, August 23, 2017 09:20:51 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:21:02 Pacific Daylight Time

Name: 170822M1_60, Date: 22-Aug-2017, Time: 21:33:55, ID: ST170822M1-12 PFC CS3 17H2207, Description: PFC CS3 17H2207

13C6-PFDA



13C7-PFUnA



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

AC 8/23/17

Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	1.66e3	1.72e4		1.26	1.33	1.20	1.03	102.7
2	2	PFPeA	263.1 > 218.9	2.61e3	3.18e4		2.53	2.62	1.03	0.955	95.5
3	3	PFBS	299 > 79.7	5.72e2	3.95e3		2.89	2.86	1.81	0.969	96.9
4	4	PFHxA	313.2 > 268.9	4.64e3	1.41e4		3.14	3.11	1.65	1.08	107.8
5	5	PFHpA	363 > 318.9	4.77e3	4.43e4		3.40	3.39	1.35	1.04	103.5
6	6	PFHxS	398.9 > 79.6	4.21e2	3.58e3		3.41	3.46	1.47	0.894	89.4
7	7	6:2 FTS	427.1 > 407	1.34e3	1.20e4		3.59	3.58	1.40	1.22	122.5
8	8	PFOA	413 > 368.7	6.35e3	7.45e4		3.59	3.59	1.07	0.922	92.2
9	9	PFHpS	448.9 > 98.8	5.13e2	7.45e4		3.60	3.65	0.0861	0.886	88.6
10	10	PFNA	462.9 > 418.8	8.78e3	8.88e4		3.75	3.77	1.24	1.09	109.5
11	11	PFOSA	498.1 > 77.8	1.04e3	1.05e4		3.79	3.78	1.24	1.13	113.0
12	12	PFOS	499 > 79.9	1.20e3	1.52e4		3.80	3.82	0.986	0.903	90.3
13	13	PFDA	513 > 468.8	8.33e3	7.95e4		3.96	3.94	1.31	1.11	111.0
14	14	8:2 FTS	527 > 506.9	1.16e3	8.50e3		3.95	3.93	1.70	1.18	118.2
15	15	N-MeFOSAA	570.1 > 419	2.16e3	1.78e4		3.92	3.97	19.6	1.03	102.6
16	16	N-EtFOSAA	584.2 > 419	1.56e3	1.68e4		3.97	4.04	15.1	0.985	98.5
17	17	PFUnA	562.9 > 518.9	6.37e3	9.84e4		4.12	4.11	0.809	0.994	99.4
18	18	PFDS	598.9 > 98.7	7.40e2	9.84e4		4.17	4.15	0.0941	1.27	126.8
19	19	PFDoA	612.9 > 318.8	7.30e2	9.07e3		4.28	4.27	1.01	1.06	106.5
20	20	N-MeFOSA	512.1 > 168.9	1.69e3	4.07e4		4.14	4.24	6.22	5.99	119.8
21	21	PFTrDA	662.9 > 618.9	8.12e3	9.07e3		4.45	4.44	11.2	1.06	106.2
22	22	PFTeDA	712.9 > 668.8	5.46e3	5.10e4		4.54	4.62	1.34	1.04	103.9
23	23	N-EtFOSA	526.1 > 168.9	2.08e3	5.68e4		4.71	4.80	5.50	5.74	114.8
24	24	PFHxDA	812.8 > 768.9	8.58e3	2.74e4		5.03	4.99	1.57	0.979	97.9
25	25	PFODA	912.8 > 868.8	7.09e3	2.74e4		5.37	5.36	1.29	1.14	113.7
26	26	N-MeFOSE	616.1 > 58.9	2.53e3	6.43e4		5.26	5.42	5.91	5.44	108.7
27	27	N-EtFOSE	630.1 > 58.9	2.81e3	6.27e4		5.58	5.60	6.72	5.56	111.1
28	28	13C3-PFBA	216.1 > 171.8	1.72e4	1.74e4	0.915	1.26	1.33	12.4	13.5	108.1
29	29	13C3-PFPeA	266 > 221.8	3.18e4	4.47e4	0.256	2.53	2.61	3.56	13.9	111.1
30	30	13C3-PFBS	302 > 98.8	3.95e3	4.47e4	0.032	2.89	2.85	0.442	14.0	112.2
31	31	13C2-PFHxA	315 > 269.8	1.41e4	4.47e4	0.304	3.14	3.11	1.57	5.18	103.7

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Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	4.43e4	4.47e4	0.341	3.40	3.39	4.96	14.5	116.1
33	33	18O2-PFHxS	403 > 102.6	3.58e3	8.18e3	0.445	3.41	3.46	5.47	12.3	98.3
34	34	13C2-6:2 FTS	429.1 > 408.9	1.20e4	6.48e4	0.194	3.59	3.58	2.31	11.9	95.2
35	35	13C2-PFOA	414.9 > 369.7	7.45e4	6.48e4	1.081	3.59	3.59	14.4	13.3	106.3
36	36	13C5-PFNA	468.2 > 422.9	8.88e4	8.89e4	0.908	3.75	3.77	12.5	13.8	110.1
37	37	13C8-PFOSA	506.1 > 77.7	1.05e4	9.52e4	0.130	3.79	3.78	1.37	10.6	84.6
38	38	13C8-PFOS	507 > 79.9	1.52e4	1.39e4	1.076	3.77	3.82	13.7	12.7	101.8
39	39	13C2-PFDA	515.1 > 469.9	7.95e4	7.56e4	1.002	3.96	3.94	13.1	13.1	104.9
40	40	13C2-8:2 FTS	529.1 > 508.7	8.50e3	7.56e4	0.110	3.95	3.94	1.41	12.8	102.0
41	41	d3-N-MeFOSAA	573.3 > 419	1.78e4	9.52e4	0.016	3.99	3.97	2.34	149	91.7
42	42	d5-N-EtFOSAA	589.3 > 419	1.68e4	9.52e4	0.015	4.06	4.04	2.21	143	87.7
43	43	13C2-PFUnA	565 > 519.8	9.84e4	9.52e4	1.045	4.12	4.11	12.9	12.4	98.8
44	44	13C2-PFDoA	615 > 569.7	9.07e3	9.52e4	0.101	4.29	4.27	1.19	11.8	94.6
45	45	d3-N-MeFOSA	515.2 > 168.9	4.07e4	9.52e4	0.048	4.19	4.26	5.34	112	74.7
46	46	13C2-PFTeDA	714.8 > 669.6	5.10e4	9.52e4	0.583	4.54	4.61	6.69	11.5	91.8
47	47	d5-N-ETFOSA	531.1 > 168.9	5.68e4	9.52e4	0.067	4.76	4.85	7.46	111	73.9
48	48	13C2-PFHxDA	815 > 769.7	2.74e4	9.52e4	0.774	5.03	4.99	3.60	4.65	92.9
49	49	d7-N-MeFOSE	623.1 > 58.9	6.43e4	9.52e4	0.074	5.26	5.41	8.44	114	76.2
50	50	d9-N-EtFOSE	639.2 > 58.8	6.27e4	9.52e4	0.075	5.58	5.59	8.23	110	73.0
51	51	13C4-PFBA	217 > 171.8	1.74e4	1.74e4	1.000	1.26	1.33	12.5	12.5	100.0
52	52	13C5-PFHxA	318 > 272.9	4.47e4	4.47e4	1.000	3.14	3.11	5.00	5.00	100.0
53	53	13C3-PFHxS	401.9 > 79.9	8.18e3	8.18e3	1.000	3.41	3.46	12.5	12.5	100.0
54	54	13C8-PFOA	421.3 > 376	6.48e4	6.48e4	1.000	3.55	3.59	12.5	12.5	100.0
55	55	13C9-PFNA	472.2 > 426.9	8.89e4	8.89e4	1.000	3.79	3.77	12.5	12.5	100.0
56	56	13C4-PFOS	503 > 79.9	1.39e4	1.39e4	1.000	3.77	3.82	12.5	12.5	100.0
57	57	13C6-PFDA	519.1 > 473.7	7.56e4	7.56e4	1.000	3.95	3.94	12.5	12.5	100.0
58	58	13C7-PFUnA	570.1 > 524.8	9.52e4	9.52e4	1.000	4.12	4.11	12.5	12.5	100.0

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Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, August 23, 2017 09:43:45 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:43:57 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 23 Aug 2017 09:38:00
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170822M1_1	IPA	22-Aug-17	10:51:41
2	170822M1_2	ST170822M1-1 PFC CS-2 17H2202	22-Aug-17	11:02:26
3	170822M1_3	ST170822M1-2 PFC CS-1 17H2203	22-Aug-17	11:13:04
4	170822M1_4	ST170822M1-3 PFC CS0 17H2204	22-Aug-17	11:23:42
5	170822M1_5	ST170822M1-4 PFC CS1 17H2205	22-Aug-17	11:34:29
6	170822M1_6	ST170822M1-5 PFC CS2 17H2206	22-Aug-17	11:45:07
7	170822M1_7	ST170822M1-6 PFC CS3 17H2207	22-Aug-17	11:55:45
8	170822M1_8	ST170822M1-7 PFC CS4 17H2208	22-Aug-17	12:06:39
9	170822M1_9	ST170822M1-8 PFC CS5 17H2209	22-Aug-17	12:17:36
10	170822M1_10	ST170822M1-9 PFC CS6 17H2232	22-Aug-17	12:28:17
11	170822M1_11	ST170822M1-10 PFC CS7 17H2231	22-Aug-17	12:39:01
12	170822M1_12	IPA	22-Aug-17	12:49:48
13	170822M1_13	ICV170822M1-1 PFC ICV 17H2201	22-Aug-17	13:00:26
14	170822M1_14	B7H0066-BS1 OPR 0.125	22-Aug-17	13:11:13
15	170822M1_15	B7H0069-BS1 OPR 0.25	22-Aug-17	13:22:00
16	170822M1_16	IPA	22-Aug-17	13:32:45
17	170822M1_17	B7H0066-BLK1 Method Blank 0.125	22-Aug-17	13:43:32
18	170822M1_18	B7H0069-BLK1 Method Blank 0.25	22-Aug-17	13:54:18
19	170822M1_19	B7H0066-MS1 Matrix Spike 0.11555	22-Aug-17	14:04:57
20	170822M1_20	B7H0066-MSD1 Matrix Spike Dup 0.11567	22-Aug-17	14:15:35
21	170822M1_21	B7H0066-MS2 Matrix Spike 0.11836	22-Aug-17	14:26:21
22	170822M1_22	B7H0066-MSD2 Matrix Spike Dup 0.11729	22-Aug-17	14:37:00
23	170822M1_23	B7H0069-MS1 Matrix Spike 0.1193	22-Aug-17	14:47:46
24	170822M1_24	B7H0069-MSD1 Matrix Spike Dup 0.11433	22-Aug-17	14:58:33
25	170822M1_25	1701011-01 06302140000900_2017 0.11617	22-Aug-17	15:09:16
26	170822M1_26	1701011-02 06302140002050_2017 0.11859	22-Aug-17	15:20:00
27	170822M1_27	1701011-03 06302140002100_2017 0.11904	22-Aug-17	15:30:46
28	170822M1_28	1701011-04 06302810002200_2017 0.11477	22-Aug-17	15:41:53
29	170822M1_29	1701011-05 064W5000002700_2017 0.11543	22-Aug-17	15:53:06
30	170822M1_30	1701011-06 FD-01 0.12004	22-Aug-17	16:03:50
31	170822M1_31	1701011-07 FD-02 0.11727	22-Aug-17	16:14:37

Dataset: Untitled

Last Altered: Wednesday, August 23, 2017 09:43:45 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:43:57 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170822M1_32	1701013-04@5X 064A3000000100_2017 0.1...	22-Aug-17	16:25:15
33	170822M1_33	IPA	22-Aug-17	16:40:37
34	170822M1_34	1701013-05 064A3500005900_2017 0.12037	22-Aug-17	16:51:21
35	170822M1_35	IPA	22-Aug-17	17:01:59
36	170822M1_36	ST170822M1-11 PFC CS3 17H2207	22-Aug-17	17:12:38
37	170822M1_37	IPA	22-Aug-17	17:23:24
38	170822M1_38	B7H0050-BS1 OPR 0.125	22-Aug-17	17:34:03
39	170822M1_39	IPA	22-Aug-17	17:44:41
40	170822M1_40	B7H0050-BLK1 Method Blank 0.125	22-Aug-17	17:55:20
41	170822M1_41	1700981-03 FT02-FT1 0.02258	22-Aug-17	18:10:57
42	170822M1_42	1700981-04 FT02-SVE1-2 0.02246	22-Aug-17	18:21:35
43	170822M1_43	IPA	22-Aug-17	18:32:22
44	170822M1_44	1700981-05 FT02-FT8W 0.02432	22-Aug-17	18:43:00
45	170822M1_45	IPA	22-Aug-17	18:53:39
46	170822M1_46	1700981-06 FT02-FT3 0.0196	22-Aug-17	19:04:25
47	170822M1_47	IPA	22-Aug-17	19:15:03
48	170822M1_48	1700981-07 FT02-FT4S 0.0216	22-Aug-17	19:25:42
49	170822M1_49	IPA	22-Aug-17	19:36:20
50	170822M1_50	1700981-08 FT02-SVE2-8 0.02204	22-Aug-17	19:47:07
51	170822M1_51	IPA	22-Aug-17	19:57:53
52	170822M1_52	1700981-04@5X FT02-SVE1-2 0.02246	22-Aug-17	20:08:40
53	170822M1_53	IPA	22-Aug-17	20:19:18
54	170822M1_54	1700981-05@5X FT02-FT8W 0.02432	22-Aug-17	20:29:56
55	170822M1_55	IPA	22-Aug-17	20:40:35
56	170822M1_56	1700981-06@5X FT02-FT3 0.0196	22-Aug-17	20:51:13
57	170822M1_57	IPA	22-Aug-17	21:01:52
58	170822M1_58	1700981-07@5X FT02-FT4S 0.0216	22-Aug-17	21:12:30
59	170822M1_59	IPA	22-Aug-17	21:23:09
60	170822M1_60	ST170822M1-12 PFC CS3 17H2207	22-Aug-17	21:33:55
61	170822M1_61	IPA	22-Aug-17	21:44:33
62	170822M1_62	1700981-08@20X FT02-SVE2-8 0.02204	22-Aug-17	21:55:11
63	170822M1_63	IPA	22-Aug-17	22:05:50
64	170822M1_64	1700980-07 IR10MW31A1-080217 0.12279	22-Aug-17	22:16:39
65	170822M1_65	1700980-08 IR10MW31A1-080217-D 0.11964	22-Aug-17	22:27:31

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, August 23, 2017 09:43:45 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 09:43:57 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	170822M1_66	1700980-09 080217-ER-01 0.11911	22-Aug-17	22:38:09
67	170822M1_67	1700980-10 080217-SB-01 0.11909	22-Aug-17	22:48:56
68	170822M1_68	IPA	22-Aug-17	22:59:34
69	170822M1_69	ST170822M1-13 PFC CS0 17H2204	22-Aug-17	23:10:12
70	170822M1_70	IPA	22-Aug-17	23:20:59
71	170822M1_71	B7H0126-BS1 OPR 0.125	22-Aug-17	23:31:37
72	170822M1_72	B7H0130-BS1 OPR 0.125	22-Aug-17	23:42:24
73	170822M1_73	IPA	22-Aug-17	23:53:02
74	170822M1_74	B7H0125-BLK1 Method Blank 0.125	23-Aug-17	00:03:41
75	170822M1_75	B7H0125-BLK2 Method Blank 0.125	23-Aug-17	00:14:27
76	170822M1_76	B7H0126-BLK1 Method Blank 0.125	23-Aug-17	00:25:14
77	170822M1_77	B7H0127-BLK1 Method Blank 0.125	23-Aug-17	00:35:53
78	170822M1_78	B7H0130-BLK1 Method Blank 0.125	23-Aug-17	00:46:40
79	170822M1_79	1701078-01 SVE 2-8 0.125	23-Aug-17	00:57:27
80	170822M1_80	1701078-02 SVE 3-13 0.125	23-Aug-17	01:08:14
81	170822M1_81	B7H0127-BS1 OPR 0.125	23-Aug-17	01:19:00
82	170822M1_82	B7H0127-BS2 OPR 0.125	23-Aug-17	01:29:47
83	170822M1_83	B7H0127-BS3 OPR 0.125	23-Aug-17	01:40:34
84	170822M1_84	B7H0127-BS4 OPR 0.125	23-Aug-17	01:51:21
85	170822M1_85	IPA	23-Aug-17	02:02:06
86	170822M1_86	1701079-03RE1@20X VEL FOAM L3 0.125	23-Aug-17	02:12:49
87	170822M1_87	1701079-03RE1 VEL FOAM L3 0.125	23-Aug-17	02:23:39
88	170822M1_88	IPA	23-Aug-17	02:34:18
89	170822M1_89	1700962-02@80X West Tank 0.125	23-Aug-17	02:44:58
90	170822M1_90	1700962-02@40X West Tank 0.125	23-Aug-17	02:55:44
91	170822M1_91	IPA	23-Aug-17	03:06:32
92	170822M1_92	1700962-03@80X MiddleTank 0.125	23-Aug-17	03:17:18
93	170822M1_93	1700962-03@40X MiddleTank 0.125	23-Aug-17	03:28:05
94	170822M1_94	IPA	23-Aug-17	03:38:52
95	170822M1_95	1700974-12 MATP03038 0.125	23-Aug-17	03:49:39
96	170822M1_96	IPA	23-Aug-17	04:00:28
97	170822M1_97	ST170822M1-14 PFC CS3 17H2207	23-Aug-17	04:11:13
98	170822M1_98	IPA	23-Aug-17	04:22:00

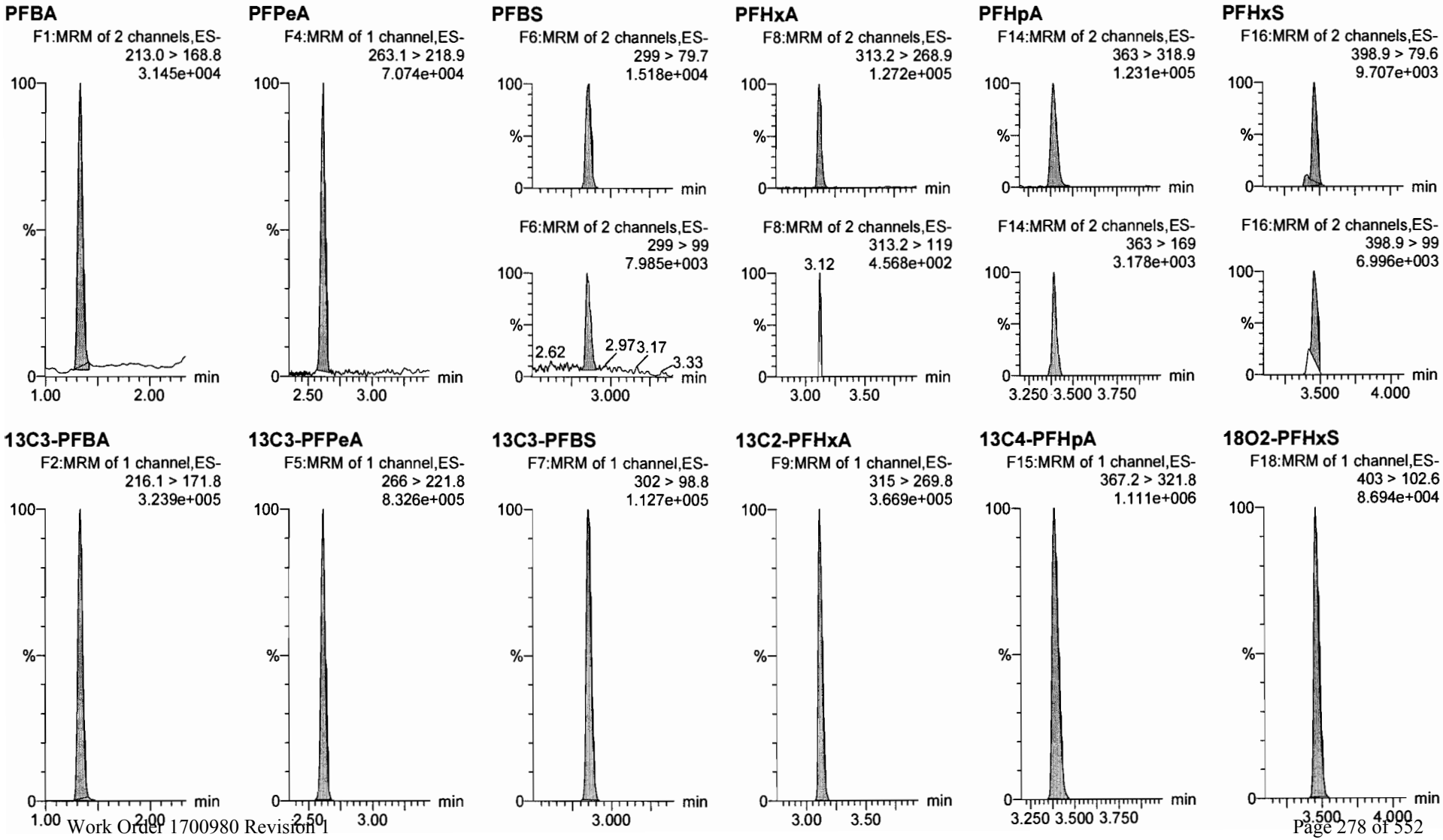
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204



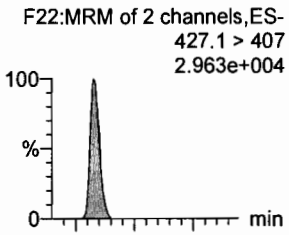
Vista Analytical Laboratory

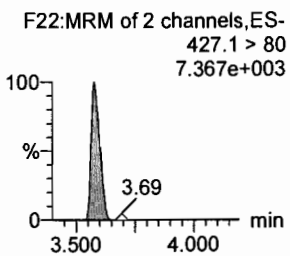
Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

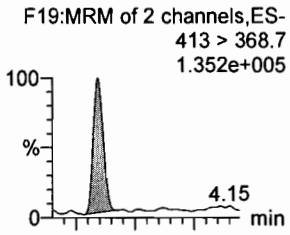
Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204

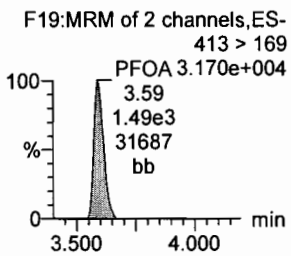
6:2 FTS



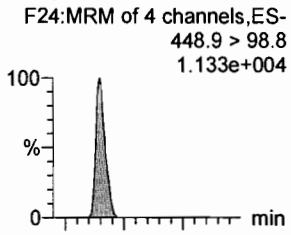


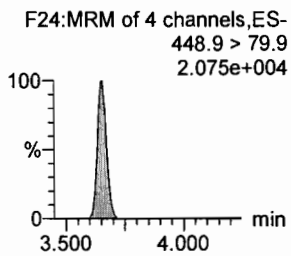
PFOA





PFHpS





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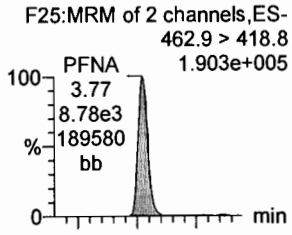
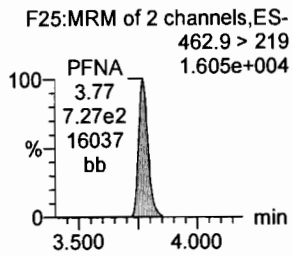
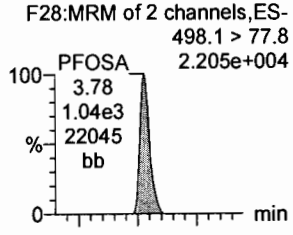
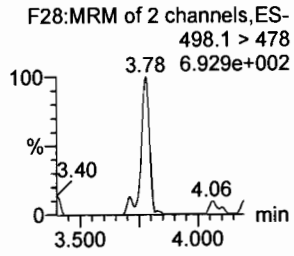


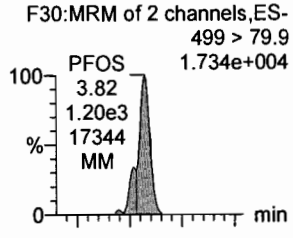


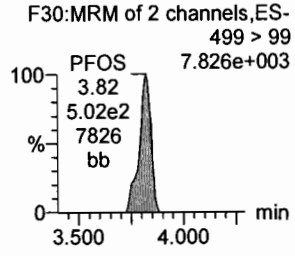
PFOSA



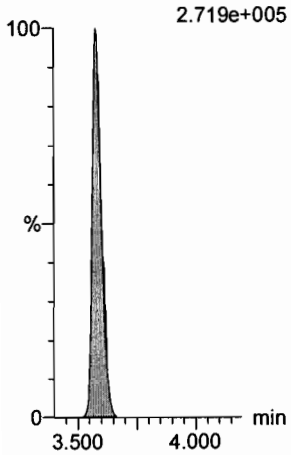


PFOS

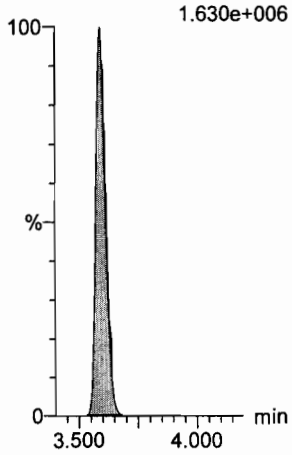




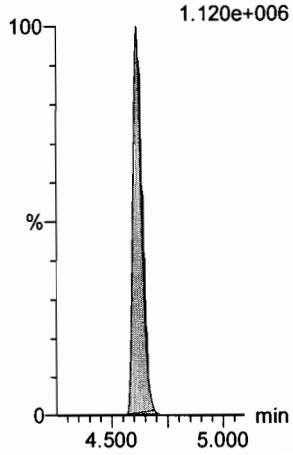
13C2-6:2 FTS



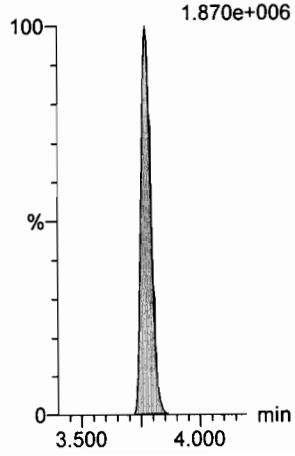
13C2-PFOA



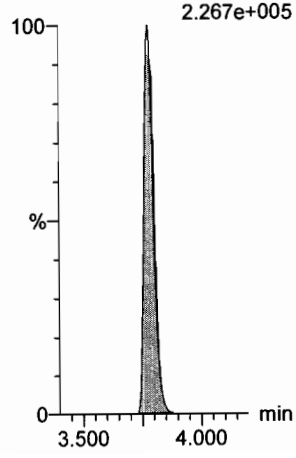
13C2-PFTeDA



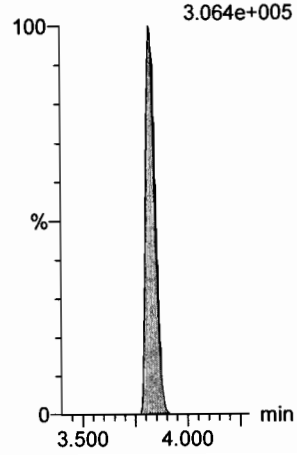
13C5-PFNA



13C8-PFOSA



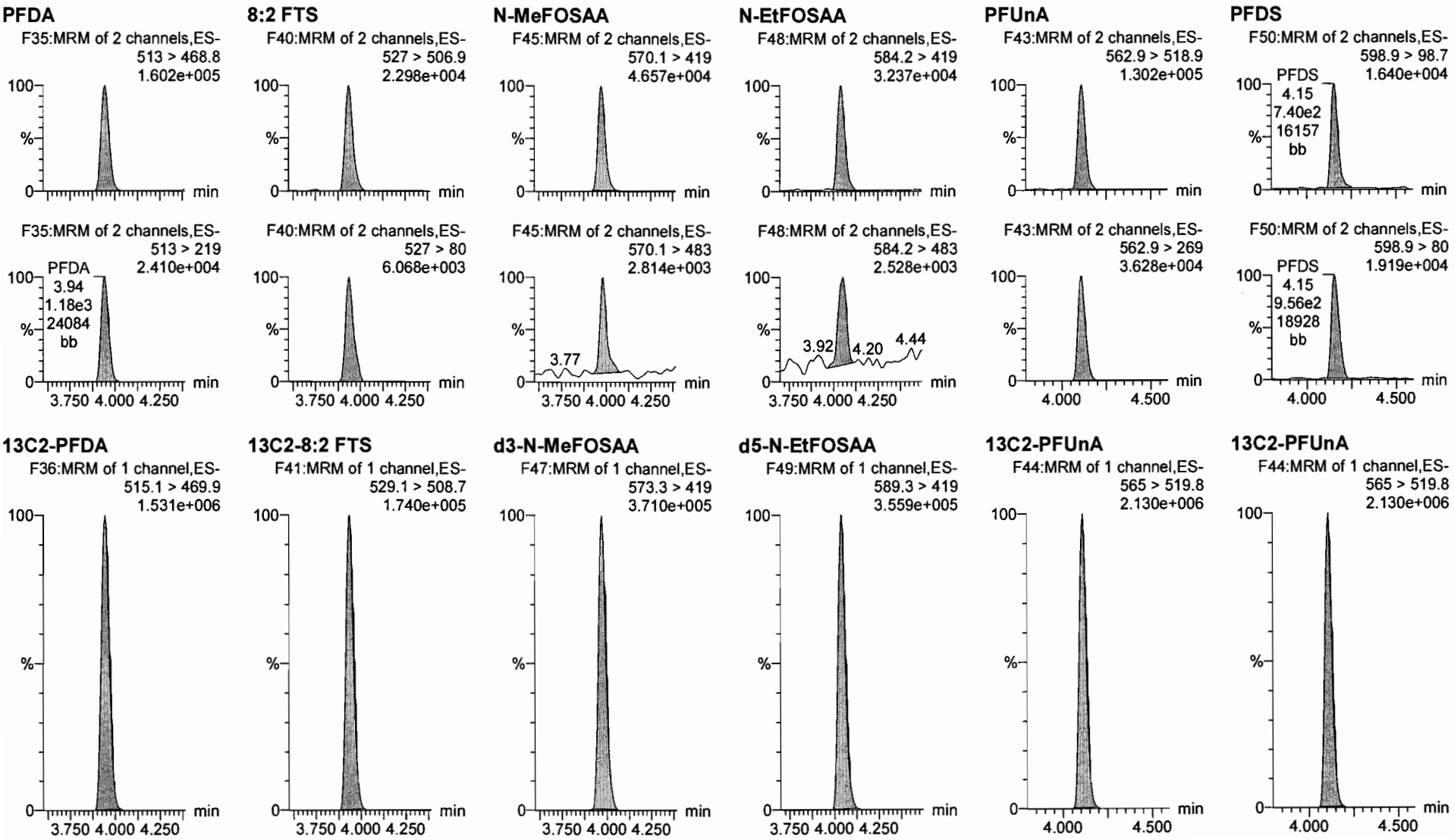
13C8-PFOS



Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

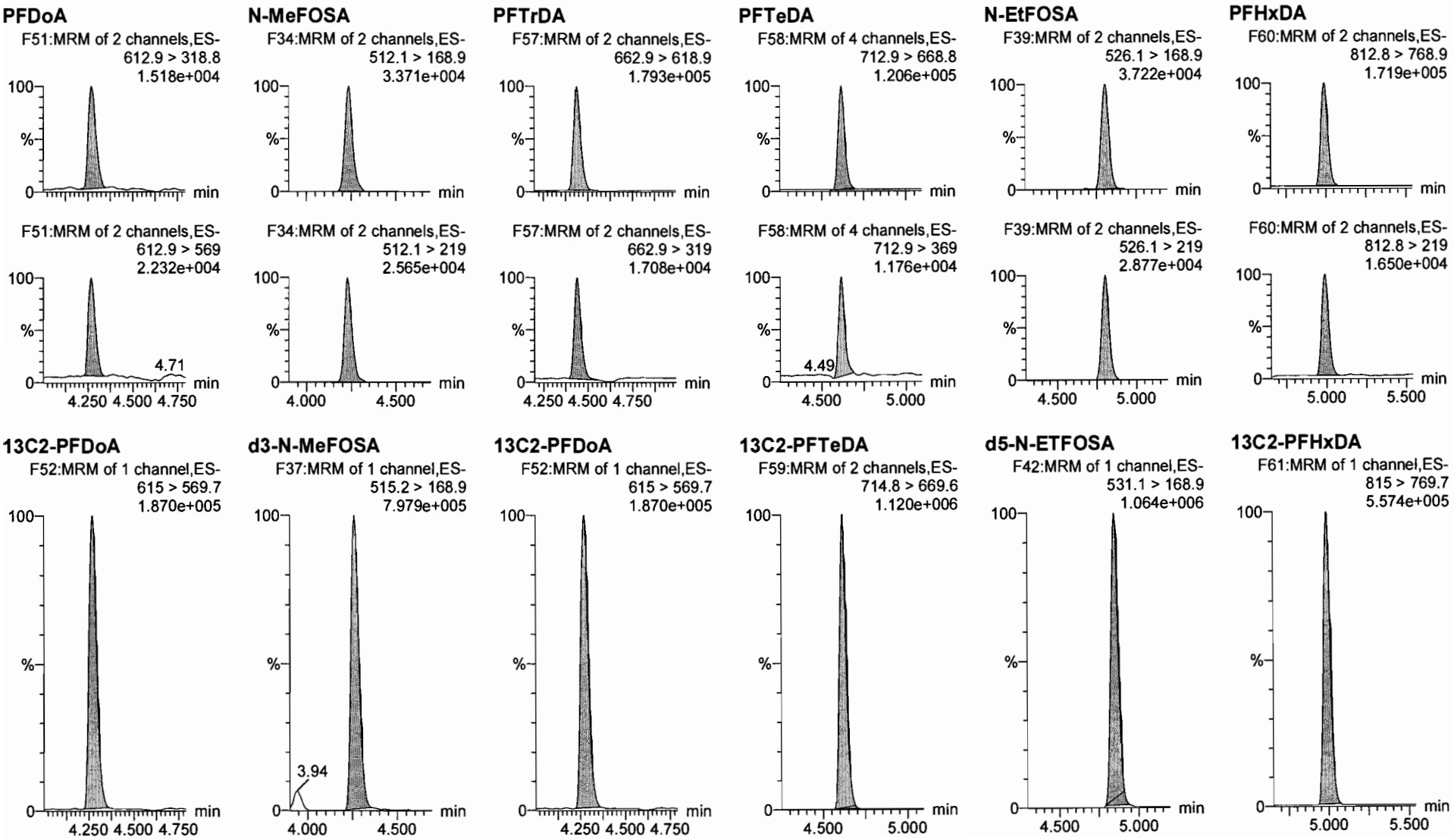
Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204



Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204

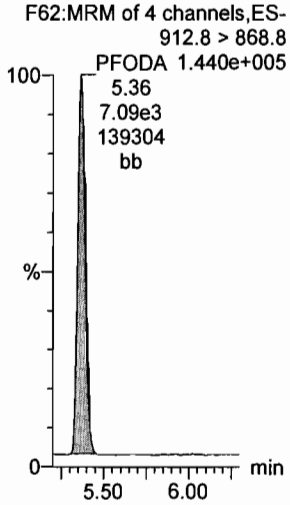


Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

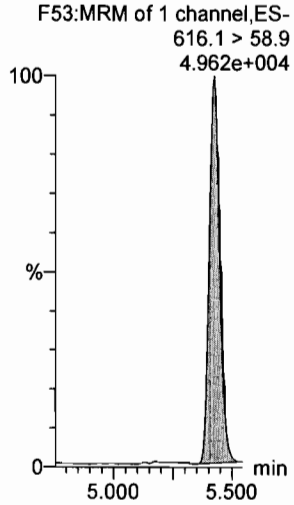
Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204

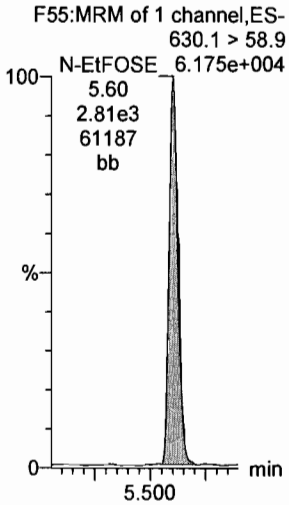
PFODA



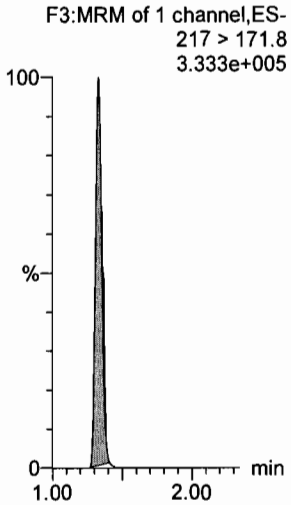
N-MeFOSE



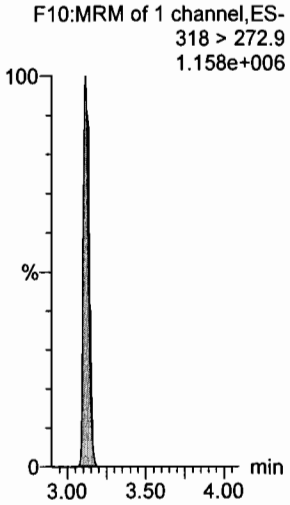
N-EtFOSE



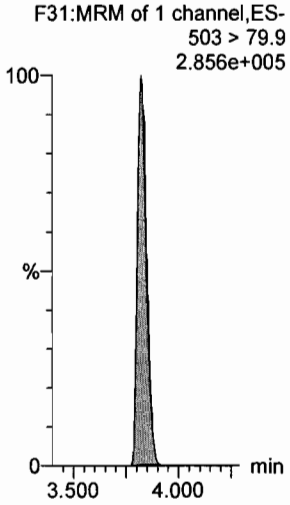
13C4-PFBA



13C5-PFHxA



13C4-PFOS



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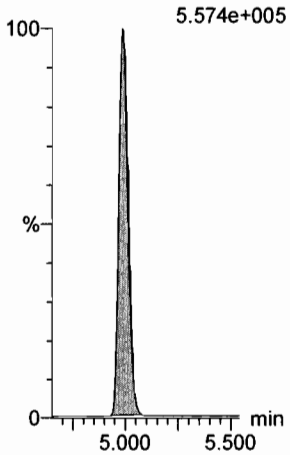
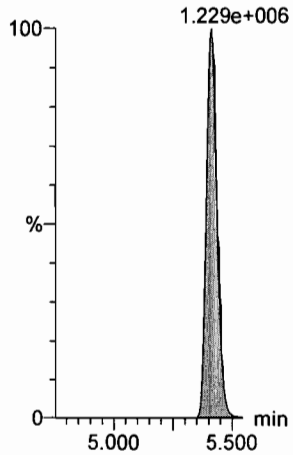
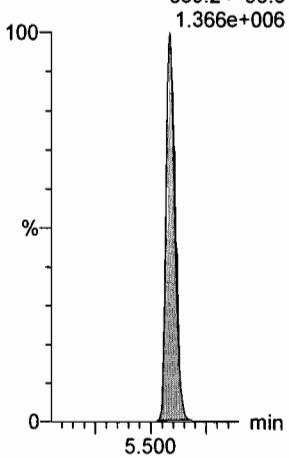


d7-N-MeFOSE



d9-N-EtFOSE



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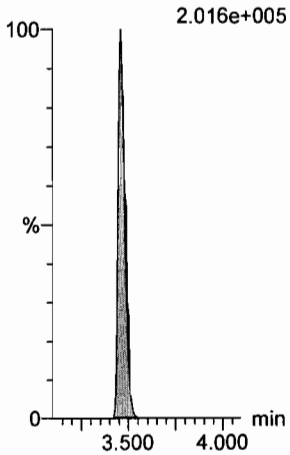

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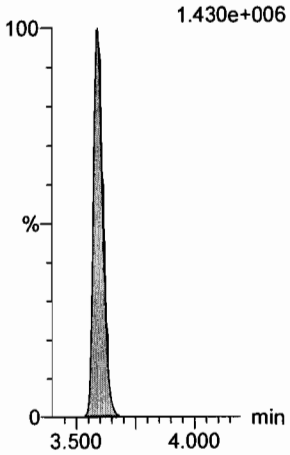
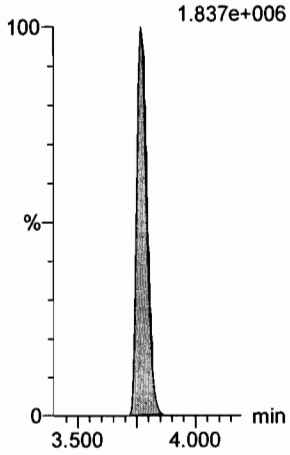


13C9-PFNA

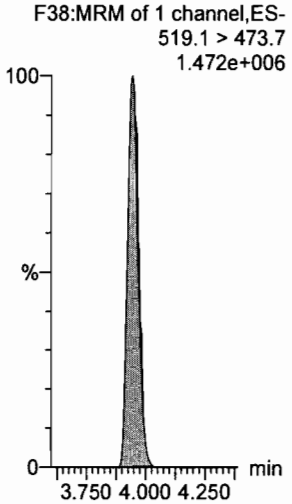


Dataset: U:\Q4.PRO\results\170822M1\170822M1-69.qld

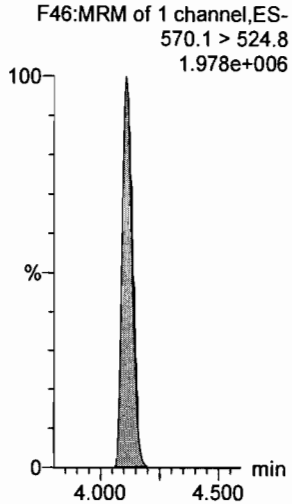
Last Altered: Wednesday, August 23, 2017 10:14:17 Pacific Daylight Time
Printed: Wednesday, August 23, 2017 10:16:15 Pacific Daylight Time

Name: 170822M1_69, Date: 22-Aug-2017, Time: 23:10:12, ID: ST170822M1-13 PFC CS0 17H2204, Description: PFC CS0 17H2204

13C6-PFDA



13C7-PFUnA



INITIAL CALIBRATION (ICAL)

INCLUDING ASSOCIATED

INITIAL CALIBRATION VERIFICATION (ICV) AND INSTRUMENT BLANK (IB)

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:31:51 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-10-17.mdb 11 Aug 2017 08:55:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Compound name: PFBA
Coefficient of Determination: R^2 = 0.999558
Calibration curve: -0.000132012 * x^2 + 1.09237 * x + 0.0597566
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

8/11/17

AM 8/11/17

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	1.92	424.371	15542.773	0.341	0.3	3.1	NO	1.000	NO	bb
2	2	170810M2_3	Standard	0.500	1.92	754.429	15666.696	0.602	0.5	-0.7	NO	1.000	NO	bb
3	3	170810M2_4	Standard	1.000	1.92	1618.036	16473.561	1.228	1.1	6.9	NO	1.000	NO	bb
4	4	170810M2_5	Standard	2.000	1.92	2982.913	15767.530	2.365	2.1	5.5	NO	1.000	NO	bb
5	5	170810M2_6	Standard	5.000	1.91	7409.122	16464.104	5.625	5.1	2.0	NO	1.000	NO	bb
6	6	170810M2_7	Standard	10.000	1.91	14834.788	16369.950	11.328	10.3	3.3	NO	1.000	NO	bb
7	7	170810M2_8	Standard	50.000	1.92	71756.844	16361.661	54.821	50.4	0.9	NO	1.000	NO	bb
8	8	170810M2_9	Standard	100.000	1.91	168270.703	18859.416	111.530	103.3	3.3	NO	1.000	NO	bb
9	9	170810M2_10	Standard	250.000	1.91	386171.219	18778.650	257.055	242.4	-3.1	NO	1.000	NO	bb
10	10	170810M2_11	Standard	500.000	1.90	760893.688	18418.195	516.401	503.3	0.7	NO	1.000	NO	bb

Compound name: PFPeA
Correlation coefficient: r = 0.999003, r^2 = 0.998007
Calibration curve: 0.943317 * x + 0.117613
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	2.95	653.409	27880.619	0.293	0.2	-25.7	NO	0.998	NO	bb
2	2	170810M2_3	Standard	0.500	2.96	1172.739	28322.555	0.518	0.4	-15.2	NO	0.998	NO	bb
3	3	170810M2_4	Standard	1.000	2.95	2464.434	28875.371	1.067	1.0	0.6	NO	0.998	NO	bb
4	4	170810M2_5	Standard	2.000	2.95	4911.096	27712.795	2.215	2.2	11.2	NO	0.998	NO	bb
5	5	170810M2_6	Standard	5.000	2.95	12193.369	29315.059	5.199	5.4	7.7	NO	0.998	NO	bb
6	6	170810M2_7	Standard	10.000	2.96	24281.596	29802.102	10.185	10.7	6.7	NO	0.998	NO	bb
7	7	170810M2_8	Standard	50.000	2.95	116934.664	28667.293	50.988	53.9	7.9	NO	0.998	NO	bb
8	8	170810M2_9	Standard	100.000	2.95	277388.313	33506.395	103.483	109.6	9.6	NO	0.998	NO	bb
9	9	170810M2_10	Standard	250.000	2.94	605455.688	32021.633	236.346	250.4	0.2	NO	0.998	NO	bb

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Compound name: PFPeA

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
10	10	170810M2_11	Standard	500.000	2.94	1128645.625	30833.635	457.555	484.9	-3.0	NO	0.998	NO	bb

Compound name: PFBS
Correlation coefficient: r = 0.999068, r^2 = 0.998137
Calibration curve: 1.7128 * x + 0.180452
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.11	130.566	3242.905	0.503	0.2	-24.6	NO	0.998	NO	MM
2	2	170810M2_3	Standard	0.500	3.11	260.774	3291.404	0.990	0.5	-5.4	NO	0.998	NO	bb
3	3	170810M2_4	Standard	1.000	3.11	535.091	3435.015	1.947	1.0	3.1	NO	0.998	NO	bb
4	4	170810M2_5	Standard	2.000	3.12	1039.628	3373.359	3.852	2.1	7.2	NO	0.998	NO	bb
5	5	170810M2_6	Standard	5.000	3.12	2403.595	3305.415	9.090	5.2	4.0	NO	0.998	NO	bb
6	6	170810M2_7	Standard	10.000	3.12	5112.701	3622.048	17.644	10.2	2.0	NO	0.998	NO	bb
7	7	170810M2_8	Standard	50.000	3.11	25072.861	3433.760	91.273	53.2	6.4	NO	0.998	NO	bb
8	8	170810M2_9	Standard	100.000	3.11	56239.211	3757.638	187.083	109.1	9.1	NO	0.998	NO	bb
9	9	170810M2_10	Standard	250.000	3.10	124185.078	3568.171	435.045	253.9	1.6	NO	0.998	NO	bb
10	10	170810M2_11	Standard	500.000	3.10	218811.797	3303.260	828.015	483.3	-3.3	NO	0.998	NO	bb

Compound name: PFHxA
Correlation coefficient: r = 0.997990, r^2 = 0.995984
Calibration curve: 1.26213 * x + 0.638423
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.32	973.456	11232.063	0.433			NO	0.996	NO	bbX!
2	2	170810M2_3	Standard	0.500	3.32	1845.170	11474.060	0.804	0.1	-73.8	NO	0.996	NO	bbX
3	3	170810M2_4	Standard	1.000	3.33	3912.146	12197.214	1.604	0.8	-23.5	NO	0.996	NO	bb
4	4	170810M2_5	Standard	2.000	3.32	7263.097	12310.407	2.950	1.8	-8.4	NO	0.996	NO	bb
5	5	170810M2_6	Standard	5.000	3.32	18200.357	12691.323	7.170	5.2	3.5	NO	0.996	NO	bb
6	6	170810M2_7	Standard	10.000	3.32	36521.176	13114.998	13.923	10.5	5.3	NO	0.996	NO	bb
7	7	170810M2_8	Standard	50.000	3.32	177809.250	12075.982	73.621	57.8	15.6	NO	0.996	NO	bb

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Compound name: PFHxA

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
8	8	170810M2_9	Standard	100.000	3.31	393866.563	14098.515	139.684	110.2	10.2	NO	0.996	NO	bb
9	9	170810M2_10	Standard	250.000	3.30	896249.938	13890.280	322.618	255.1	2.0	NO	0.996	NO	bb
10	10	170810M2_11	Standard	500.000	3.30	1694936.625	14073.479	602.174	476.6	-4.7	NO	0.996	NO	bb

Compound name: PFHpA
Correlation coefficient: r = 0.998520, r^2 = 0.997041
Calibration curve: 1.13042 * x + 0.520352
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.57	1021.577	32744.631	0.390			NO	0.997	NO	bbXI
2	2	170810M2_3	Standard	0.500	3.57	2115.316	37927.195	0.697	0.2	-68.7	NO	0.997	NO	bbX
3	3	170810M2_4	Standard	1.000	3.58	4504.139	40517.414	1.390	0.8	-23.1	NO	0.997	NO	bb
4	4	170810M2_5	Standard	2.000	3.57	8848.725	40261.074	2.747	2.0	-1.5	NO	0.997	NO	bb
5	5	170810M2_6	Standard	5.000	3.57	20480.195	40307.914	6.351	5.2	3.2	NO	0.997	NO	bb
6	6	170810M2_7	Standard	10.000	3.57	39021.555	40487.199	12.047	10.2	2.0	NO	0.997	NO	bb
7	7	170810M2_8	Standard	50.000	3.57	204471.547	40139.113	63.676	55.9	11.7	NO	0.997	NO	bb
8	8	170810M2_9	Standard	100.000	3.56	439243.500	43301.590	126.798	111.7	11.7	NO	0.997	NO	bb
9	9	170810M2_10	Standard	250.000	3.55	986020.313	43919.035	280.636	247.8	-0.9	NO	0.997	NO	bb
10	10	170810M2_11	Standard	500.000	3.55	1853039.250	42249.473	548.243	484.5	-3.1	NO	0.997	NO	bb

Compound name: PFHxS
Coefficient of Determination: R^2 = 0.999727
Calibration curve: -0.00059344 * x^2 + 1.77788 * x + -0.123769
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.64	104.558	2973.079	0.440	0.3	26.8	NO	1.000	NO	MM
2	2	170810M2_3	Standard	0.500	3.66	147.156	3418.749	0.538	0.4	-25.5	NO	1.000	NO	MM
3	3	170810M2_4	Standard	1.000	3.65	505.877	3603.866	1.755	1.1	5.7	NO	1.000	NO	MM
4	4	170810M2_5	Standard	2.000	3.64	970.668	3657.688	3.317	1.9	-3.2	NO	1.000	NO	MM
5	5	170810M2_6	Standard	5.000	3.64	2611.106	3713.872	8.788	5.0	0.4	NO	1.000	NO	bb

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Compound name: PFHxS

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
6	6	170810M2_7	Standard	10.000	3.64	5130.715	3730.608	17.191	9.8	-2.3	NO	1.000	NO	MM
7	7	170810M2_8	Standard	50.000	3.64	24993.557	3648.731	85.624	49.0	-1.9	NO	1.000	NO	bb
8	8	170810M2_9	Standard	100.000	3.63	53419.980	3949.262	169.082	98.4	-1.6	NO	1.000	NO	MM
9	9	170810M2_10	Standard	250.000	3.63	117028.563	3521.197	415.443	255.5	2.2	NO	1.000	NO	db
10	10	170810M2_11	Standard	500.000	3.62	217790.609	3693.524	737.069	497.1	-0.6	NO	1.000	NO	db

Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.998948
Calibration curve: -0.00172688 * x^2 + 0.945449 * x + 0.0555048
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.75	200.187	10827.486	0.231	0.2	-25.7	NO	0.999	NO	bb
2	2	170810M2_3	Standard	0.500	3.77	486.104	10909.211	0.557	0.5	6.2	NO	0.999	NO	bb
3	3	170810M2_4	Standard	1.000	3.77	883.831	10654.119	1.037	1.0	4.0	NO	0.999	NO	bb
4	4	170810M2_5	Standard	2.000	3.76	1608.501	10669.914	1.884	1.9	-2.9	NO	0.999	NO	bb
5	5	170810M2_6	Standard	5.000	3.77	4302.423	10053.431	5.349	5.7	13.2	NO	0.999	NO	bb
6	6	170810M2_7	Standard	10.000	3.77	8047.447	10016.485	10.043	10.8	7.8	NO	0.999	NO	bb
7	7	170810M2_8	Standard	50.000	3.76	39191.262	11428.154	42.867	49.8	-0.4	NO	0.999	NO	bb
8	8	170810M2_9	Standard	100.000	3.75	85670.922	14187.794	75.479	96.9	-3.1	NO	0.999	NO	bb
9	9	170810M2_10	Standard	250.000	3.74	179225.031	17337.529	129.218	261.9	4.7	NO	0.999	NO	bb
10	10	170810M2_11	Standard	500.000	3.74	272261.250	19594.984	173.680			NO	0.999	NO	bbXI

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Compound name: PFOA
Correlation coefficient: r = 0.999304, r^2 = 0.998608
Calibration curve: 0.980416 * x + 0.151461
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.78	1692.874	61642.953	0.343	0.2	-21.7	NO	0.999	NO	bb
2	2	170810M2_3	Standard	0.500	3.78	3289.689	67663.805	0.608	0.5	-6.9	NO	0.999	NO	bb
3	3	170810M2_4	Standard	1.000	3.78	6109.179	67625.266	1.129	1.0	-0.3	NO	0.999	NO	bb
4	4	170810M2_5	Standard	2.000	3.78	12862.762	69456.469	2.315	2.2	10.3	NO	0.999	NO	bb
5	5	170810M2_6	Standard	5.000	3.78	26522.385	61218.832	5.415	5.4	7.4	NO	0.999	NO	bb
6	6	170810M2_7	Standard	10.000	3.78	54100.707	64709.793	10.451	10.5	5.0	NO	0.999	NO	db
7	7	170810M2_8	Standard	50.000	3.78	248422.766	59761.141	51.962	52.8	5.7	NO	0.999	NO	bb
8	8	170810M2_9	Standard	100.000	3.77	559988.438	68978.094	101.479	103.4	3.4	NO	0.999	NO	bb
9	9	170810M2_10	Standard	250.000	3.76	1313767.500	68939.547	238.210	242.8	-2.9	NO	0.999	NO	bb
10	10	170810M2_11	Standard	500.000	3.75	2233816.250	64044.930	435.986	444.5	-11.1	NO	0.999	NO	bbX

Compound name: PFHpS
Correlation coefficient: r = 0.995991, r^2 = 0.991997
Calibration curve: 0.0786311 * x + 0.00779766
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.84	115.389	61642.953	0.023	0.2	-20.6	NO	0.992	NO	bb
2	2	170810M2_3	Standard	0.500	3.85	247.359	67663.805	0.046	0.5	-3.6	NO	0.992	NO	bb
3	3	170810M2_4	Standard	1.000	3.85	467.065	67625.266	0.086	1.0	-0.1	NO	0.992	NO	bb
4	4	170810M2_5	Standard	2.000	3.85	1021.924	69456.469	0.184	2.2	12.0	NO	0.992	NO	bb
5	5	170810M2_6	Standard	5.000	3.85	2169.387	61218.832	0.443	5.5	10.7	NO	0.992	NO	bb
6	6	170810M2_7	Standard	10.000	3.84	4681.044	64709.793	0.904	11.4	14.0	NO	0.992	NO	bb
7	7	170810M2_8	Standard	50.000	3.84	21604.721	59761.141	4.519	57.4	14.7	NO	0.992	NO	bb
8	8	170810M2_9	Standard	100.000	3.83	49713.887	68978.094	9.009	114.5	14.5	NO	0.992	NO	bb
9	9	170810M2_10	Standard	250.000	3.82	114797.594	68939.547	20.815	264.6	5.8	NO	0.992	NO	bb
10	10	170810M2_11	Standard	500.000	3.82	185939.734	64044.930	36.291	461.4	-7.7	NO	0.992	NO	bb

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Compound name: PFNA
Correlation coefficient: r = 0.998366, r^2 = 0.996735
Calibration curve: 0.979826 * x + 0.513479
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.97	1700.456	62033.051	0.343			NO	0.997	NO	bbXI
2	2	170810M2_3	Standard	0.500	3.98	2793.827	56715.289	0.616	0.1	-79.1	NO	0.997	NO	bbX
3	3	170810M2_4	Standard	1.000	3.98	6302.374	60834.914	1.295	0.8	-20.2	NO	0.997	NO	bb
4	4	170810M2_5	Standard	2.000	3.97	11665.123	61086.734	2.387	1.9	-4.4	NO	0.997	NO	bb
5	5	170810M2_6	Standard	5.000	3.97	26210.676	58121.105	5.637	5.2	4.6	NO	0.997	NO	bb
6	6	170810M2_7	Standard	10.000	3.97	54617.367	63817.566	10.698	10.4	3.9	NO	0.997	NO	bb
7	7	170810M2_8	Standard	50.000	3.97	241126.203	57678.809	52.256	52.8	5.6	NO	0.997	NO	bb
8	8	170810M2_9	Standard	100.000	3.96	570147.125	64540.883	110.424	112.2	12.2	NO	0.997	NO	bb
9	9	170810M2_10	Standard	250.000	3.96	1276250.000	63239.992	252.263	256.9	2.8	NO	0.997	NO	bb
10	10	170810M2_11	Standard	500.000	3.95	2011288.625	53648.328	468.628	477.8	-4.4	NO	0.997	NO	bb

Compound name: PFOSA
Correlation coefficient: r = 0.999155, r^2 = 0.998311
Calibration curve: 1.04987 * x + 0.0313857
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	3.99	140.984	6459.227	0.273	0.2	-8.0	NO	0.998	NO	bb
2	2	170810M2_3	Standard	0.500	4.00	317.971	6795.560	0.585	0.5	5.4	NO	0.998	NO	bb
3	3	170810M2_4	Standard	1.000	3.99	679.323	7247.529	1.172	1.1	8.6	NO	0.998	NO	bb
4	4	170810M2_5	Standard	2.000	3.98	1225.911	6795.770	2.255	2.1	5.9	NO	0.998	NO	bb
5	5	170810M2_6	Standard	5.000	3.99	2957.377	7263.316	5.090	4.8	-3.6	NO	0.998	NO	bb
6	6	170810M2_7	Standard	10.000	3.99	6346.346	7321.714	10.835	10.3	2.9	NO	0.998	NO	bb
7	7	170810M2_8	Standard	50.000	3.98	29107.096	7239.874	50.255	47.8	-4.3	NO	0.998	NO	bb
8	8	170810M2_9	Standard	100.000	3.97	63806.832	8149.971	97.864	93.2	-6.8	NO	0.998	NO	bb
9	9	170810M2_10	Standard	250.000	3.96	141035.125	6965.660	253.090	241.0	-3.6	NO	0.998	NO	bb
10	10	170810M2_11	Standard	500.000	3.96	220683.688	5075.854	543.464	517.6	3.5	NO	0.998	NO	bb

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Compound name: PFOS
Coefficient of Determination: R^2 = 0.999791
Calibration curve: -0.000252174 * x^2 + 1.06922 * x + -0.0396957
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.03	202.820	10626.669	0.239	0.3	4.1	NO	1.000	NO	MM
2	2	170810M2_3	Standard	0.500	4.04	413.253	11363.964	0.455	0.5	-7.5	NO	1.000	NO	MM
3	3	170810M2_4	Standard	1.000	4.03	862.786	10971.130	0.983	1.0	-4.3	NO	1.000	NO	MM
4	4	170810M2_5	Standard	2.000	4.03	1937.711	11205.850	2.161	2.1	3.0	NO	1.000	NO	MM
5	5	170810M2_6	Standard	5.000	4.03	4462.908	11041.968	5.052	4.8	-4.6	NO	1.000	NO	MM
6	6	170810M2_7	Standard	10.000	4.03	8765.405	11122.137	9.851	9.3	-7.3	NO	1.000	NO	MM
7	7	170810M2_8	Standard	50.000	4.03	43448.457	10002.095	54.299	51.4	2.9	NO	1.000	NO	MM
8	8	170810M2_9	Standard	100.000	4.02	95483.617	11632.687	102.603	98.3	-1.7	NO	1.000	NO	MM
9	9	170810M2_10	Standard	250.000	4.01	215446.594	10617.809	253.638	252.3	0.9	NO	1.000	NO	MM
10	10	170810M2_11	Standard	500.000	4.01	348312.906	9250.272	470.679	499.0	-0.2	NO	1.000	NO	MM

Compound name: PFDA
Correlation coefficient: r = 0.999612, r^2 = 0.999225
Calibration curve: 1.13105 * x + 0.115427
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.15	1467.511	55995.238	0.328	0.2	-25.0	NO	0.999	NO	bb
2	2	170810M2_3	Standard	0.500	4.16	2956.190	55977.539	0.660	0.5	-3.7	NO	0.999	NO	bb
3	3	170810M2_4	Standard	1.000	4.16	6754.155	58804.391	1.436	1.2	16.7	NO	0.999	NO	bb
4	4	170810M2_5	Standard	2.000	4.15	10501.298	50928.629	2.577	2.2	8.8	NO	0.999	NO	bb
5	5	170810M2_6	Standard	5.000	4.16	26044.916	56490.598	5.763	5.0	-0.1	NO	0.999	NO	bb
6	6	170810M2_7	Standard	10.000	4.16	53593.426	59644.734	11.232	9.8	-1.7	NO	0.999	NO	bb
7	7	170810M2_8	Standard	50.000	4.16	238216.063	50433.004	59.043	52.1	4.2	NO	0.999	NO	bb
8	8	170810M2_9	Standard	100.000	4.14	591185.688	63572.438	116.243	102.7	2.7	NO	0.999	NO	bb
9	9	170810M2_10	Standard	250.000	4.13	1293616.750	58295.023	277.386	245.1	-1.9	NO	0.999	NO	bb
10	10	170810M2_11	Standard	500.000	4.13	1924513.000	52405.832	459.041	405.8	-18.8	NO	0.999	NO	bbX

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Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.997950
Calibration curve: -0.00480406 * x^2 + 1.4337 * x + -0.0133124
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.15	222.118	7665.451	0.362	0.3	4.9	NO	0.998	NO	bb
2	2	170810M2_3	Standard	0.500	4.16	397.530	7353.410	0.676	0.5	-3.7	NO	0.998	NO	bb
3	3	170810M2_4	Standard	1.000	4.15	986.639	7736.133	1.594	1.1	12.5	NO	0.998	NO	bb
4	4	170810M2_5	Standard	2.000	4.15	1700.260	7913.699	2.686	1.9	-5.3	NO	0.998	NO	bb
5	5	170810M2_6	Standard	5.000	4.15	3979.425	7743.167	6.424	4.6	-8.8	NO	0.998	NO	bb
6	6	170810M2_7	Standard	10.000	4.15	7871.591	7632.894	12.891	9.3	-7.1	NO	0.998	NO	bb
7	7	170810M2_8	Standard	50.000	4.15	36677.406	7336.241	62.494	53.0	6.0	NO	0.998	NO	bb
8	8	170810M2_9	Standard	100.000	4.14	73436.234	9762.668	94.027	97.3	-2.7	NO	0.998	NO	bb
9	9	170810M2_10	Standard	250.000	4.13	154924.188	11954.295	161.996			NO	0.998	NO	bbXI
10	10	170810M2_11	Standard	500.000	4.12	222765.531	13632.657	204.257			NO	0.998	NO	bbXI

Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.999893
Calibration curve: -0.00750568 * x^2 + 19.4398 * x + -0.45786
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.17	319.184	13096.980	3.960	0.2	-9.1	NO	1.000	NO	bb
2	2	170810M2_3	Standard	0.500	4.19	832.861	13619.695	9.937	0.5	7.0	NO	1.000	NO	bb
3	3	170810M2_4	Standard	1.000	4.19	1638.138	13420.139	19.836	1.0	4.4	NO	1.000	NO	bb
4	4	170810M2_5	Standard	2.000	4.18	3473.874	14342.013	39.360	2.0	2.5	NO	1.000	NO	bb
5	5	170810M2_6	Standard	5.000	4.18	7888.805	14009.009	91.508	4.7	-5.2	NO	1.000	NO	bb
6	6	170810M2_7	Standard	10.000	4.19	15596.266	13329.100	190.140	9.8	-1.6	NO	1.000	NO	bb
7	7	170810M2_8	Standard	50.000	4.18	74786.219	12505.077	971.826	51.0	2.0	NO	1.000	NO	bb
8	8	170810M2_9	Standard	100.000	4.17	166516.688	14369.895	1883.031	100.8	0.8	NO	1.000	NO	bb
9	9	170810M2_10	Standard	250.000	4.16	363121.188	13581.694	4344.612	247.1	-1.2	NO	1.000	NO	bb
10	10	170810M2_11	Standard	500.000	4.16	577726.813	11942.306	7861.179	501.5	0.3	NO	1.000	NO	bb

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Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.999638
Calibration curve: -0.00353476 * x^2 + 15.6313 * x + 0.651764
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.26	313.074	13212.761	3.850	0.2	-18.1	NO	1.000	NO	bb
2	2	170810M2_3	Standard	0.500	4.26	835.143	13188.293	10.290	0.6	23.3	NO	1.000	NO	bb
3	3	170810M2_4	Standard	1.000	4.26	1459.771	13739.960	17.264	1.1	6.3	NO	1.000	NO	bb
4	4	170810M2_5	Standard	2.000	4.25	2723.785	13472.679	32.853	2.1	3.0	NO	1.000	NO	bb
5	5	170810M2_6	Standard	5.000	4.25	6536.180	13386.724	79.342	5.0	0.8	NO	1.000	NO	bb
6	6	170810M2_7	Standard	10.000	4.25	13418.110	14147.375	154.123	9.8	-1.6	NO	1.000	NO	bb
7	7	170810M2_8	Standard	50.000	4.25	64230.766	13121.947	795.423	51.4	2.9	NO	1.000	NO	bb
8	8	170810M2_9	Standard	100.000	4.24	148325.734	15456.478	1559.406	102.1	2.1	NO	1.000	NO	bb
9	9	170810M2_10	Standard	250.000	4.23	327290.563	14790.417	3595.890	243.4	-2.6	NO	1.000	NO	bb
10	10	170810M2_11	Standard	500.000	4.23	562908.563	13123.576	6970.100	503.1	0.6	NO	1.000	NO	bb

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.995537
Calibration curve: -0.000304422 * x^2 + 0.810482 * x + 0.0887281
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.33	1082.861	57444.809	0.236	0.2	-27.5	NO	0.996	NO	bb
2	2	170810M2_3	Standard	0.500	4.34	2396.822	62078.648	0.483	0.5	-2.8	NO	0.996	NO	bb
3	3	170810M2_4	Standard	1.000	4.34	4977.892	64503.668	0.965	1.1	8.1	NO	0.996	NO	bb
4	4	170810M2_5	Standard	2.000	4.33	9185.262	59270.816	1.937	2.3	14.1	NO	0.996	NO	bb
5	5	170810M2_6	Standard	5.000	4.33	21770.973	69700.664	3.904	4.7	-5.7	NO	0.996	NO	bb
6	6	170810M2_7	Standard	10.000	4.33	40820.391	61611.820	8.282	10.1	1.5	NO	0.996	NO	bb
7	7	170810M2_8	Standard	50.000	4.33	192810.016	52882.594	45.575	57.4	14.7	NO	0.996	NO	bb
8	8	170810M2_9	Standard	100.000	4.31	448601.406	68600.250	81.742	104.9	4.9	NO	0.996	NO	bb
9	9	170810M2_10	Standard	250.000	4.30	1001369.188	74813.570	167.311	225.4	-9.8	NO	0.996	NO	bb
10	10	170810M2_11	Standard	500.000	4.30	1654232.125	61521.715	336.107	513.7	2.7	NO	0.996	NO	bb

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Compound name: PFDS
Coefficient of Determination: R^2 = 0.992589
Calibration curve: -4.87611e-005 * x^2 + 0.0819404 * x + 0.0113831
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.38	50.134	57444.809	0.011			NO	0.993	NO	MMXI
2	2	170810M2_3	Standard	0.500	4.39	251.218	62078.648	0.051	0.5	-4.3	NO	0.993	NO	bb
3	3	170810M2_4	Standard	1.000	4.39	485.986	64503.668	0.094	1.0	1.1	NO	0.993	NO	bb
4	4	170810M2_5	Standard	2.000	4.38	806.569	59270.816	0.170	1.9	-3.0	NO	0.993	NO	bb
5	5	170810M2_6	Standard	5.000	4.38	2118.120	69700.664	0.380	4.5	-9.8	NO	0.993	NO	bb
6	6	170810M2_7	Standard	10.000	4.38	4130.849	61611.820	0.838	10.2	1.5	NO	0.993	NO	bb
7	7	170810M2_8	Standard	50.000	4.38	19476.701	52882.594	4.604	58.1	16.1	NO	0.993	NO	bb
8	8	170810M2_9	Standard	100.000	4.36	45542.465	68600.250	8.299	108.1	8.1	NO	0.993	NO	bb
9	9	170810M2_10	Standard	250.000	4.36	92623.195	74813.570	15.476	216.7	-13.3	NO	0.993	NO	bb
10	10	170810M2_11	Standard	500.000	4.35	145684.594	61521.715	29.600	525.3	5.1	NO	0.993	NO	bb

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999746
Calibration curve: -0.000238279 * x^2 + 0.835861 * x + 0.0431344
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.51	126.520	6520.931	0.243	0.2	-4.6	NO	1.000	NO	bb
2	2	170810M2_3	Standard	0.500	4.53	246.742	7169.665	0.430	0.5	-7.4	NO	1.000	NO	bb
3	3	170810M2_4	Standard	1.000	4.52	609.030	7950.386	0.958	1.1	9.4	NO	1.000	NO	bb
4	4	170810M2_5	Standard	2.000	4.51	1069.381	7572.749	1.765	2.1	3.1	NO	1.000	NO	bb
5	5	170810M2_6	Standard	5.000	4.51	2402.908	6676.272	4.499	5.3	6.8	NO	1.000	NO	bb
6	6	170810M2_7	Standard	10.000	4.51	4358.342	7074.396	7.701	9.2	-8.1	NO	1.000	NO	bb
7	7	170810M2_8	Standard	50.000	4.51	21732.080	6639.138	40.917	49.6	-0.8	NO	1.000	NO	bb
8	8	170810M2_9	Standard	100.000	4.49	51974.469	7805.791	83.231	102.5	2.5	NO	1.000	NO	bb
9	9	170810M2_10	Standard	250.000	4.48	109401.664	7118.316	192.113	247.2	-1.1	NO	1.000	NO	bb
10	10	170810M2_11	Standard	500.000	4.48	198369.359	6906.029	359.051	501.1	0.2	NO	1.000	NO	bb

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Compound name: N-MeFOSA
Correlation coefficient: r = 0.995786, r^2 = 0.991590
Calibration curve: 0.878916 * x + 0.777845
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	1.250	4.55	296.818	27716.932	1.606	0.9	-24.6	NO	0.992	NO	bb
2	2	170810M2_3	Standard	2.500	4.56	506.989	27527.555	2.763	2.3	-9.7	NO	0.992	NO	bb
3	3	170810M2_4	Standard	5.000	4.56	1040.113	27554.281	5.662	5.6	11.1	NO	0.992	NO	bb
4	4	170810M2_5	Standard	10.000	4.56	2132.267	27954.211	11.442	12.1	21.3	NO	0.992	NO	bb
5	5	170810M2_6	Standard	25.000	4.55	4991.766	26972.852	27.760	30.7	22.8	NO	0.992	NO	bb
6	6	170810M2_7	Standard	50.000	4.54	10478.551	29265.723	53.707	60.2	20.4	NO	0.992	NO	bb
7	7	170810M2_8	Standard	250.000	4.53	50625.969	29202.176	260.046	295.0	18.0	NO	0.992	NO	db
8	8	170810M2_9	Standard	500.000	4.51	118740.742	35066.203	507.928	577.0	15.4	NO	0.992	NO	bb
9	9	170810M2_10	Standard	1250.000	4.50	273392.375	36176.391	1133.581	1288.9	3.1	NO	0.992	NO	bb
10	10	170810M2_11	Standard	2500.000	4.50	473733.750	34819.609	2040.806	2321.1	-7.2	NO	0.992	NO	db

Compound name: PFTrDA
Correlation coefficient: r = 0.999754, r^2 = 0.999507
Calibration curve: 10.0213 * x + 1.2331
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.70	1808.306	6520.931	3.466	0.2	-10.9	NO	1.000	NO	MM
2	2	170810M2_3	Standard	0.500	4.71	3277.177	7169.665	5.714	0.4	-10.6	NO	1.000	NO	bb
3	3	170810M2_4	Standard	1.000	4.71	7157.351	7950.386	11.253	1.0	-0.0	NO	1.000	NO	bb
4	4	170810M2_5	Standard	2.000	4.70	13517.759	7572.749	22.313	2.1	5.2	NO	1.000	NO	bb
5	5	170810M2_6	Standard	5.000	4.70	29636.258	6676.272	55.488	5.4	8.3	NO	1.000	NO	bb
6	6	170810M2_7	Standard	10.000	4.70	60225.457	7074.396	106.414	10.5	5.0	NO	1.000	NO	bb
7	7	170810M2_8	Standard	50.000	4.70	275791.281	6639.138	519.253	51.7	3.4	NO	1.000	NO	bb
8	8	170810M2_9	Standard	100.000	4.68	633892.563	7805.791	1015.100	101.2	1.2	NO	1.000	NO	bb
9	9	170810M2_10	Standard	250.000	4.67	1405725.625	7118.316	2468.501	246.2	-1.5	NO	1.000	NO	bb
10	10	170810M2_11	Standard	500.000	4.67	2233990.500	6906.029	4043.551	403.4	-19.3	NO	1.000	NO	bbX

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Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999640
Calibration curve: -0.000533447 * x^2 + 1.13867 * x + 0.107998
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	4.90	1296.794	43934.512	0.369	0.2	-8.3	NO	1.000	NO	bb
2	2	170810M2_3	Standard	0.500	4.91	2459.198	44478.961	0.691	0.5	2.4	NO	1.000	NO	bb
3	3	170810M2_4	Standard	1.000	4.91	4822.091	48823.219	1.235	1.0	-1.0	NO	1.000	NO	bb
4	4	170810M2_5	Standard	2.000	4.90	9330.564	47903.941	2.435	2.0	2.3	NO	1.000	NO	bb
5	5	170810M2_6	Standard	5.000	4.90	20629.588	43352.480	5.948	5.1	2.8	NO	1.000	NO	bb
6	6	170810M2_7	Standard	10.000	4.90	41831.395	45414.316	11.514	10.1	0.6	NO	1.000	NO	bb
7	7	170810M2_8	Standard	50.000	4.90	191464.297	43089.582	55.543	49.8	-0.3	NO	1.000	NO	bb
8	8	170810M2_9	Standard	100.000	4.87	448893.063	49984.359	112.258	103.5	3.5	NO	1.000	NO	bb
9	9	170810M2_10	Standard	250.000	4.87	983211.563	50076.543	245.427	243.1	-2.7	NO	1.000	NO	MM
10	10	170810M2_11	Standard	500.000	4.86	1620744.750	46214.285	438.378	503.8	0.8	NO	1.000	NO	MM

Compound name: N-EtFOSA
Correlation coefficient: r = 0.998278, r^2 = 0.996558
Calibration curve: 0.877827 * x + 0.460454
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	1.250	5.00	300.846	35807.328	1.260	0.9	-27.1	NO	0.997	NO	bb
2	2	170810M2_3	Standard	2.500	5.01	616.719	35651.246	2.595	2.4	-2.7	NO	0.997	NO	bb
3	3	170810M2_4	Standard	5.000	5.00	1224.420	36907.691	4.976	5.1	2.9	NO	0.997	NO	bb
4	4	170810M2_5	Standard	10.000	5.00	2355.630	37358.246	9.458	10.3	2.5	NO	0.997	NO	bb
5	5	170810M2_6	Standard	25.000	5.00	5722.799	34930.285	24.575	27.5	9.9	NO	0.997	NO	bb
6	6	170810M2_7	Standard	50.000	4.98	11801.225	38343.563	46.166	52.1	4.1	NO	0.997	NO	bb
7	7	170810M2_8	Standard	250.000	4.97	58068.348	36419.504	239.164	271.9	8.8	NO	0.997	NO	db
8	8	170810M2_9	Standard	500.000	4.95	136462.141	43820.121	467.122	531.6	6.3	NO	0.997	NO	db
9	9	170810M2_10	Standard	1250.000	4.94	323008.469	46286.176	1046.776	1191.9	-4.6	NO	0.997	NO	bb
10	10	170810M2_11	Standard	2500.000	4.94	574823.688	43106.852	2000.228	2278.1	-8.9	NO	0.997	NO	bbX

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Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999241
Calibration curve: -0.00134262 * x^2 + 1.44391 * x + 0.187386
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	5.29	2439.806	20425.877	0.597	0.3	13.6	NO	0.999	NO	bd
2	2	170810M2_3	Standard	0.500	5.30	3560.579	20498.971	0.868	0.5	-5.6	NO	0.999	NO	bb
3	3	170810M2_4	Standard	1.000	5.30	6815.783	21206.127	1.607	1.0	-1.6	NO	0.999	NO	bb
4	4	170810M2_5	Standard	2.000	5.29	13956.986	22826.240	3.057	2.0	-0.4	NO	0.999	NO	bb
5	5	170810M2_6	Standard	5.000	5.28	30517.473	20867.588	7.312	5.0	-0.9	NO	0.999	NO	bb
6	6	170810M2_7	Standard	10.000	5.29	57583.516	21425.330	13.438	9.3	-7.4	NO	0.999	NO	bb
7	7	170810M2_8	Standard	50.000	5.28	276492.656	19445.941	71.093	51.6	3.2	NO	0.999	NO	bb
8	8	170810M2_9	Standard	100.000	5.26	606868.313	23300.309	130.228	99.2	-0.8	NO	0.999	NO	MM
9	9	170810M2_10	Standard	250.000	5.25	897246.125	15976.768	280.797	254.6	1.9	NO	0.999	NO	bbX
10	10	170810M2_11	Standard	500.000	5.24	1213814.625	11401.953	532.284			NO	0.999	NO	bbXl

Compound name: PFODA
Correlation coefficient: r = 0.999467, r^2 = 0.998934
Calibration curve: 1.27081 * x + 0.103615
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	0.250	5.66	1714.516	20425.877	0.420	0.2	-0.5	NO	0.999	NO	bb
2	2	170810M2_3	Standard	0.500	5.66	3188.736	20498.971	0.778	0.5	6.1	NO	0.999	NO	bb
3	3	170810M2_4	Standard	1.000	5.66	6602.740	21206.127	1.557	1.1	14.4	NO	0.999	NO	bb
4	4	170810M2_5	Standard	2.000	5.66	12914.733	22826.240	2.829	2.1	7.2	NO	0.999	NO	bb
5	5	170810M2_6	Standard	5.000	5.66	27537.434	20867.588	6.598	5.1	2.2	NO	0.999	NO	bb
6	6	170810M2_7	Standard	10.000	5.66	56117.164	21425.330	13.096	10.2	2.2	NO	0.999	NO	bb
7	7	170810M2_8	Standard	50.000	5.65	255676.906	19445.941	65.740	51.6	3.3	NO	0.999	NO	bb
8	8	170810M2_9	Standard	100.000	5.62	579058.625	23300.309	124.260	97.7	-2.3	NO	0.999	NO	bb
9	9	170810M2_10	Standard	250.000	5.61	1368190.375	15976.768	428.181	336.9	34.7	NO	0.999	NO	bbX
10	10	170810M2_11	Standard	500.000	5.60	2323741.500	11401.953	1019.010	801.8	60.4	NO	0.999	NO	bbX

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Compound name: N-MeFOSE
Correlation coefficient: r = 0.998979, r^2 = 0.997958
Calibration curve: 0.913987 * x + 0.914175
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	1.250	5.28	449.666	37456.684	1.801	1.0	-22.4	NO	0.998	NO	bb
2	2	170810M2_3	Standard	2.500	5.29	709.438	37182.391	2.862	2.1	-14.8	NO	0.998	NO	bb
3	3	170810M2_4	Standard	5.000	5.29	1441.188	38748.840	5.579	5.1	2.1	NO	0.998	NO	bb
4	4	170810M2_5	Standard	10.000	5.28	2749.127	38784.367	10.632	10.6	6.3	NO	0.998	NO	bb
5	5	170810M2_6	Standard	25.000	5.28	6369.167	37768.906	25.295	26.7	6.7	NO	0.998	NO	bb
6	6	170810M2_7	Standard	50.000	5.28	13694.196	41681.102	49.282	52.9	5.8	NO	0.998	NO	bb
7	7	170810M2_8	Standard	250.000	5.28	68194.742	40391.512	253.252	276.1	10.4	NO	0.998	NO	bb
8	8	170810M2_9	Standard	500.000	5.26	159694.672	48233.188	496.633	542.4	8.5	NO	0.998	NO	bb
9	9	170810M2_10	Standard	1250.000	5.25	369344.906	48233.070	1148.626	1255.7	0.5	NO	0.998	NO	bb
10	10	170810M2_11	Standard	2500.000	5.25	687202.625	46562.453	2213.809	2421.1	-3.2	NO	0.998	NO	bb

Compound name: N-EtFOSE
Correlation coefficient: r = 0.998468, r^2 = 0.996938
Calibration curve: 1.01573 * x + 2.54785
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	1.250	5.45	431.103	36366.551	1.778			NO	0.997	NO	bbXI
2	2	170810M2_3	Standard	2.500	5.46	845.634	37921.910	3.345	0.8	-68.6	NO	0.997	NO	bbX
3	3	170810M2_4	Standard	5.000	5.46	1629.428	37938.703	6.442	3.8	-23.3	NO	0.997	NO	bb
4	4	170810M2_5	Standard	10.000	5.45	3162.947	39692.059	11.953	9.3	-7.4	NO	0.997	NO	bb
5	5	170810M2_6	Standard	25.000	5.45	7056.696	37298.547	28.379	25.4	1.7	NO	0.997	NO	bb
6	6	170810M2_7	Standard	50.000	5.45	15470.291	39826.883	58.266	54.9	9.7	NO	0.997	NO	bb
7	7	170810M2_8	Standard	250.000	5.45	75266.070	39464.043	286.081	279.1	11.7	NO	0.997	NO	bb
8	8	170810M2_9	Standard	500.000	5.43	181684.203	48142.445	566.083	554.8	11.0	NO	0.997	NO	bb
9	9	170810M2_10	Standard	1250.000	5.42	430891.406	50641.645	1276.296	1254.0	0.3	NO	0.997	NO	bb
10	10	170810M2_11	Standard	2500.000	5.42	790079.563	48390.172	2449.091	2408.7	-3.7	NO	0.997	NO	bb

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Compound name: 13C3-PFBA
Response Factor: 0.905828
RRF SD: 0.0122576, Relative SD: 1.35319
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	1.91	15542.773	17253.230	11.261	12.4	-0.5	NO		NO	bb
2	2	170810M2_3	Standard	12.500	1.92	15666.696	17209.924	11.379	12.6	0.5	NO		NO	bb
3	3	170810M2_4	Standard	12.500	1.92	16473.561	17869.518	11.524	12.7	1.8	NO		NO	bb
4	4	170810M2_5	Standard	12.500	1.92	15767.530	17173.609	11.477	12.7	1.4	NO		NO	bb
5	5	170810M2_6	Standard	12.500	1.91	16464.104	18114.355	11.361	12.5	0.3	NO		NO	bb
6	6	170810M2_7	Standard	12.500	1.92	16369.950	18442.018	11.096	12.2	-2.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	1.92	16361.661	17753.158	11.520	12.7	1.7	NO		NO	bb
8	8	170810M2_9	Standard	12.500	1.91	18859.416	21098.885	11.173	12.3	-1.3	NO		NO	bb
9	9	170810M2_10	Standard	12.500	1.91	18778.650	20835.586	11.266	12.4	-0.5	NO		NO	bb
10	10	170810M2_11	Standard	12.500	1.90	18418.195	20606.902	11.172	12.3	-1.3	NO		NO	bb

Compound name: 13C3-PFPeA
Response Factor: 0.283893
RRF SD: 0.00573445, Relative SD: 2.01993
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	2.95	27880.619	38245.879	3.645	12.8	2.7	NO		NO	bb
2	2	170810M2_3	Standard	12.500	2.95	28322.555	40090.316	3.532	12.4	-0.5	NO		NO	bb
3	3	170810M2_4	Standard	12.500	2.96	28875.371	41622.215	3.469	12.2	-2.3	NO		NO	bb
4	4	170810M2_5	Standard	12.500	2.95	27712.795	39798.098	3.482	12.3	-1.9	NO		NO	bb
5	5	170810M2_6	Standard	12.500	2.95	29315.059	41689.316	3.516	12.4	-0.9	NO		NO	bb
6	6	170810M2_7	Standard	12.500	2.95	29802.102	41735.027	3.570	12.6	0.6	NO		NO	bb
7	7	170810M2_8	Standard	12.500	2.95	28667.293	39240.863	3.653	12.9	2.9	NO		NO	bb
8	8	170810M2_9	Standard	12.500	2.94	33506.395	46120.840	3.632	12.8	2.4	NO		NO	bb
9	9	170810M2_10	Standard	12.500	2.94	32021.633	45642.266	3.508	12.4	-1.1	NO		NO	bb
10	10	170810M2_11	Standard	12.500	2.94	30833.635	44306.922	3.480	12.3	-1.9	NO		NO	bb

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Compound name: 13C3-PFBS
Response Factor: 0.0328786
RRF SD: 0.00161235, Relative SD: 4.90396
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.11	3242.905	38245.879	0.424	12.9	3.2	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.11	3291.404	40090.316	0.410	12.5	-0.1	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.12	3435.015	41622.215	0.413	12.6	0.4	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.11	3373.359	39798.098	0.424	12.9	3.1	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.12	3305.415	41689.316	0.396	12.1	-3.5	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.12	3622.048	41735.027	0.434	13.2	5.6	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.12	3433.760	39240.863	0.438	13.3	6.5	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.11	3757.638	46120.840	0.407	12.4	-0.9	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.10	3568.171	45642.266	0.391	11.9	-4.9	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.10	3303.260	44306.922	0.373	11.3	-9.3	NO		NO	bb

Compound name: 13C2-PFHxA
Response Factor: 0.303632
RRF SD: 0.00987768, Relative SD: 3.25318
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	5.000	3.32	11232.063	38245.879	1.468	4.8	-3.3	NO		NO	bb
2	2	170810M2_3	Standard	5.000	3.32	11474.060	40090.316	1.431	4.7	-5.7	NO		NO	bb
3	3	170810M2_4	Standard	5.000	3.33	12197.214	41622.215	1.465	4.8	-3.5	NO		NO	bb
4	4	170810M2_5	Standard	5.000	3.32	12310.407	39798.098	1.547	5.1	1.9	NO		NO	bb
5	5	170810M2_6	Standard	5.000	3.32	12691.323	41689.316	1.522	5.0	0.3	NO		NO	bb
6	6	170810M2_7	Standard	5.000	3.32	13114.998	41735.027	1.571	5.2	3.5	NO		NO	bb
7	7	170810M2_8	Standard	5.000	3.32	12075.982	39240.863	1.539	5.1	1.4	NO		NO	bb
8	8	170810M2_9	Standard	5.000	3.31	14098.515	46120.840	1.528	5.0	0.7	NO		NO	bb
9	9	170810M2_10	Standard	5.000	3.30	13890.280	45642.266	1.522	5.0	0.2	NO		NO	bb
10	10	170810M2_11	Standard	5.000	3.30	14073.479	44306.922	1.588	5.2	4.6	NO		NO	bb

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Compound name: 13C4-PFHpA
Response Factor: 0.384073
RRF SD: 0.0180967, Relative SD: 4.71177
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.57	32744.631	38245.879	4.281	11.1	-10.8	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.58	37927.195	40090.316	4.730	12.3	-1.5	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.58	40517.414	41622.215	4.867	12.7	1.4	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.57	40261.074	39798.098	5.058	13.2	5.4	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.57	40307.914	41689.316	4.834	12.6	0.7	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.57	40487.199	41735.027	4.851	12.6	1.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.57	40139.113	39240.863	5.114	13.3	6.5	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.56	43301.590	46120.840	4.694	12.2	-2.2	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.55	43919.035	45642.266	4.811	12.5	0.2	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.55	42249.473	44306.922	4.768	12.4	-0.7	NO		NO	bb

Compound name: 18O2-PFHxS
Response Factor: 0.417122
RRF SD: 0.0140806, Relative SD: 3.37566
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.64	2973.079	7282.960	5.103	12.2	-2.1	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.65	3418.749	8095.660	5.279	12.7	1.2	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.65	3603.866	8554.390	5.266	12.6	1.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.64	3657.688	9118.271	5.014	12.0	-3.8	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.64	3713.872	8806.590	5.271	12.6	1.1	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.65	3730.608	8875.088	5.254	12.6	0.8	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.64	3648.731	8462.481	5.390	12.9	3.4	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.63	3949.262	9360.616	5.274	12.6	1.1	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.63	3521.197	9070.533	4.853	11.6	-6.9	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.62	3693.524	8491.929	5.437	13.0	4.3	NO		NO	bb

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Compound name: 13C2-6:2 FTS
Response Factor: 0.201722
RRF SD: 0.0340952, Relative SD: 16.9021
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.76	10827.486	54603.613	2.479	12.3	-1.7	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.77	10909.211	58987.684	2.312	11.5	-8.3	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.77	10654.119	60428.516	2.204	10.9	-12.6	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.77	10669.914	61095.281	2.183	10.8	-13.4	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.77	10053.431	56983.695	2.205	10.9	-12.5	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.77	10016.485	53819.109	2.326	11.5	-7.7	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.76	11428.154	52844.020	2.703	13.4	7.2	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.75	14187.794	63696.625	2.784	13.8	10.4	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.74	17337.529	61971.621	3.497	17.3	38.7	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.74	19594.984	53950.348	4.540	22.5	80.1	NO		NO	bbX

Compound name: 13C2-PFOA
Response Factor: 1.1322
RRF SD: 0.0401853, Relative SD: 3.54932
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.78	61642.953	54603.613	14.111	12.5	-0.3	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.79	67663.805	58987.684	14.339	12.7	1.3	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.79	67625.266	60428.516	13.989	12.4	-1.2	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.78	69456.469	61095.281	14.211	12.6	0.4	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.78	61218.832	56983.695	13.429	11.9	-5.1	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.78	64709.793	53819.109	15.029	13.3	6.2	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.78	59761.141	52844.020	14.136	12.5	-0.1	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.77	68978.094	63696.625	13.536	12.0	-4.4	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.76	68939.547	61971.621	13.905	12.3	-1.7	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.76	64044.930	53950.348	14.839	13.1	4.8	NO		NO	bb

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Compound name: 13C5-PFNA
Response Factor: 0.94609
RRF SD: 0.0460977, Relative SD: 4.87244
Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.97	62033.051	62822.277	12.343	13.0	4.4	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.98	56715.289	69006.492	10.274	10.9	-13.1	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.98	60834.914	64031.563	11.876	12.6	0.4	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.97	61086.734	63786.367	11.971	12.7	1.2	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.97	58121.105	59683.719	12.173	12.9	2.9	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.97	63817.566	67704.961	11.782	12.5	-0.4	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.97	57678.809	61617.066	11.701	12.4	-1.1	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.96	64540.883	67146.039	12.015	12.7	1.6	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.95	63239.992	65393.742	12.088	12.8	2.2	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.95	53648.328	55705.484	12.038	12.7	1.8	NO		NO	bb

Compound name: 13C8-PFOSA
Response Factor: 0.11942
RRF SD: 0.0160933, Relative SD: 13.4762
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.99	6459.227	56516.137	1.429	12.0	-4.3	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.99	6795.560	54058.969	1.571	13.2	5.3	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.99	7247.529	58876.535	1.539	12.9	3.1	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.98	6795.770	54908.402	1.547	13.0	3.6	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.99	7263.316	66408.094	1.367	11.4	-8.4	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.99	7321.714	50136.242	1.825	15.3	22.3	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.98	7239.874	55712.629	1.624	13.6	8.8	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.97	8149.971	65160.934	1.563	13.1	4.7	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.96	6965.660	61852.313	1.408	11.8	-5.7	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.96	5075.854	60220.047	1.054	8.8	-29.4	NO		NO	bb

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Compound name: 13C8-PFOS
Response Factor: 1.03984
RRF SD: 0.043134, Relative SD: 4.14815
Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.03	10626.669	10014.264	13.264	12.8	2.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.04	11363.964	11495.998	12.356	11.9	-4.9	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.03	10971.130	10441.012	13.135	12.6	1.1	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.03	11205.850	10602.818	13.211	12.7	1.6	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.03	11041.968	10918.573	12.641	12.2	-2.7	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.03	11122.137	9895.137	14.050	13.5	8.1	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.03	10002.095	10000.603	12.502	12.0	-3.8	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.02	11632.687	11222.943	12.956	12.5	-0.3	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.01	10617.809	10708.807	12.394	11.9	-4.6	NO		NO	bd
10	10	170810M2_11	Standard	12.500	4.01	9250.272	8584.092	13.470	13.0	3.6	NO		NO	bd

Compound name: 13C2-PFDA
Response Factor: 0.970789
RRF SD: 0.0673883, Relative SD: 6.9416
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.15	55995.238	62130.031	11.266	11.6	-7.2	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.16	55977.539	56889.133	12.300	12.7	1.4	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.16	58804.391	63530.797	11.570	11.9	-4.7	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.16	50928.629	56949.430	11.178	11.5	-7.9	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.16	56490.598	58825.063	12.004	12.4	-1.1	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.16	59644.734	57823.469	12.894	13.3	6.3	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.15	50433.004	53425.855	11.800	12.2	-2.8	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.14	63572.438	62756.719	12.662	13.0	4.3	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.13	58295.023	62057.383	11.742	12.1	-3.2	NO		NO	bb
10	10	170810M2_11	Standard	12.500	4.13	52405.832	47017.207	13.933	14.4	14.8	NO		NO	bb

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Compound name: 13C2-8:2 FTS
Response Factor: 0.140279
RRF SD: 0.0220172, Relative SD: 15.6953
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.15	7665.451	62130.031	1.542	11.0	-12.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.16	7353.410	56889.133	1.616	11.5	-7.9	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.16	7736.133	63530.797	1.522	10.9	-13.2	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.15	7913.699	56949.430	1.737	12.4	-0.9	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.15	7743.167	58825.063	1.645	11.7	-6.2	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.15	7632.894	57823.469	1.650	11.8	-5.9	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.15	7336.241	53425.855	1.716	12.2	-2.1	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.14	9762.668	62756.719	1.945	13.9	10.9	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.12	11954.295	62057.383	2.408	17.2	37.3	NO		NO	bb
10	10	170810M2_11	Standard	12.500	4.12	13632.657	47017.207	3.624	25.8	106.7	NO		NO	bbX

Compound name: d3-N-MeFOSAA
Response Factor: 0.0177885
RRF SD: 0.00168688, Relative SD: 9.48297
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	162.500	4.18	13096.980	56516.137	2.897	162.8	0.2	NO		NO	bb
2	2	170810M2_3	Standard	162.500	4.19	13619.695	54058.969	3.149	177.0	8.9	NO		NO	bb
3	3	170810M2_4	Standard	162.500	4.19	13420.139	58876.535	2.849	160.2	-1.4	NO		NO	bb
4	4	170810M2_5	Standard	162.500	4.18	14342.013	54908.402	3.265	183.5	13.0	NO		NO	bb
5	5	170810M2_6	Standard	162.500	4.18	14009.009	66408.094	2.637	148.2	-8.8	NO		NO	bb
6	6	170810M2_7	Standard	162.500	4.18	13329.100	50136.242	3.323	186.8	15.0	NO		NO	bb
7	7	170810M2_8	Standard	162.500	4.18	12505.077	55712.629	2.806	157.7	-2.9	NO		NO	bb
8	8	170810M2_9	Standard	162.500	4.17	14369.895	65160.934	2.757	155.0	-4.6	NO		NO	bb
9	9	170810M2_10	Standard	162.500	4.16	13581.694	61852.313	2.745	154.3	-5.0	NO		NO	bb
10	10	170810M2_11	Standard	162.500	4.16	11942.306	60220.047	2.479	139.4	-14.2	NO		NO	bb

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Compound name: d5-N-EtFOSAA
Response Factor: 0.018231
RRF SD: 0.00158227, Relative SD: 8.67901
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	162.500	4.25	13212.761	56516.137	2.922	160.3	-1.4	NO		NO	bb
2	2	170810M2_3	Standard	162.500	4.26	13188.293	54058.969	3.050	167.3	2.9	NO		NO	bb
3	3	170810M2_4	Standard	162.500	4.26	13739.960	58876.535	2.917	160.0	-1.5	NO		NO	bb
4	4	170810M2_5	Standard	162.500	4.25	13472.679	54908.402	3.067	168.2	3.5	NO		NO	bb
5	5	170810M2_6	Standard	162.500	4.25	13386.724	66408.094	2.520	138.2	-14.9	NO		NO	bb
6	6	170810M2_7	Standard	162.500	4.25	14147.375	50136.242	3.527	193.5	19.1	NO		NO	bb
7	7	170810M2_8	Standard	162.500	4.25	13121.947	55712.629	2.944	161.5	-0.6	NO		NO	bb
8	8	170810M2_9	Standard	162.500	4.23	15456.478	65160.934	2.965	162.6	0.1	NO		NO	bb
9	9	170810M2_10	Standard	162.500	4.23	14790.417	61852.313	2.989	164.0	0.9	NO		NO	bb
10	10	170810M2_11	Standard	162.500	4.22	13123.576	60220.047	2.724	149.4	-8.0	NO		NO	bb

Compound name: 13C2-PFUnA
Response Factor: 1.08514
RRF SD: 0.0880815, Relative SD: 8.11704
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.33	57444.809	56516.137	12.705	11.7	-6.3	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.34	62078.648	54058.969	14.354	13.2	5.8	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.34	64503.668	58876.535	13.695	12.6	1.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.33	59270.816	54908.402	13.493	12.4	-0.5	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.32	69700.664	66408.094	13.120	12.1	-3.3	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.34	61611.820	50136.242	15.361	14.2	13.2	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.33	52882.594	55712.629	11.865	10.9	-12.5	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.32	68600.250	65160.934	13.160	12.1	-3.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.30	74813.570	61852.313	15.119	13.9	11.5	NO		NO	bb
10	10	170810M2_11	Standard	12.500	4.30	61521.715	60220.047	12.770	11.8	-5.9	NO		NO	bb

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Compound name: 13C2-PFDoA
Response Factor: 0.123132
RRF SD: 0.0129407, Relative SD: 10.5096
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.51	6520.931	56516.137	1.442	11.7	-6.3	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.52	7169.665	54058.969	1.658	13.5	7.7	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.52	7950.386	58876.535	1.688	13.7	9.7	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.51	7572.749	54908.402	1.724	14.0	12.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.51	6676.272	66408.094	1.257	10.2	-18.4	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.51	7074.396	50136.242	1.764	14.3	14.6	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.51	6639.138	55712.629	1.490	12.1	-3.2	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.49	7805.791	65160.934	1.497	12.2	-2.7	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.48	7118.316	61852.313	1.439	11.7	-6.5	NO		NO	bb
10	10	170810M2_11	Standard	12.500	4.48	6906.029	60220.047	1.433	11.6	-6.9	NO		NO	MM

Compound name: d3-N-MeFOSA
Response Factor: 0.0432669
RRF SD: 0.0047116, Relative SD: 10.8896
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	150.000	4.58	27716.932	56516.137	6.130	141.7	-5.5	NO		NO	bb
2	2	170810M2_3	Standard	150.000	4.59	27527.555	54058.969	6.365	147.1	-1.9	NO		NO	bb
3	3	170810M2_4	Standard	150.000	4.59	27554.281	58876.535	5.850	135.2	-9.9	NO		NO	bb
4	4	170810M2_5	Standard	150.000	4.58	27954.211	54908.402	6.364	147.1	-1.9	NO		NO	bb
5	5	170810M2_6	Standard	150.000	4.58	26972.852	66408.094	5.077	117.3	-21.8	NO		NO	bb
6	6	170810M2_7	Standard	150.000	4.57	29265.723	50136.242	7.297	168.6	12.4	NO		NO	bb
7	7	170810M2_8	Standard	150.000	4.55	29202.176	55712.629	6.552	151.4	1.0	NO		NO	bb
8	8	170810M2_9	Standard	150.000	4.54	35066.203	65160.934	6.727	155.5	3.6	NO		NO	bb
9	9	170810M2_10	Standard	150.000	4.53	36176.391	61852.313	7.311	169.0	12.7	NO		NO	bb
10	10	170810M2_11	Standard	150.000	4.53	34819.609	60220.047	7.228	167.0	11.4	NO		NO	bb

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Compound name: 13C2-PFTeDA
Response Factor: 0.797804
RRF SD: 0.0690308, Relative SD: 8.6526
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.90	43934.512	56516.137	9.717	12.2	-2.6	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.91	44478.961	54058.969	10.285	12.9	3.1	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.91	48823.219	58876.535	10.366	13.0	3.9	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.90	47903.941	54908.402	10.905	13.7	9.4	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.90	43352.480	66408.094	8.160	10.2	-18.2	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.90	45414.316	50136.242	11.323	14.2	13.5	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.90	43089.582	55712.629	9.668	12.1	-3.1	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.87	49984.359	65160.934	9.589	12.0	-3.8	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.86	50076.543	61852.313	10.120	12.7	1.5	NO		NO	MM
10	10	170810M2_11	Standard	12.500	4.86	46214.285	60220.047	9.593	12.0	-3.8	NO		NO	MM

Compound name: d5-N-ETFOSA
Response Factor: 0.0556786
RRF SD: 0.00566563, Relative SD: 10.1756
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	150.000	5.02	35807.328	56516.137	7.920	142.2	-5.2	NO		NO	bb
2	2	170810M2_3	Standard	150.000	5.03	35651.246	54058.969	8.244	148.1	-1.3	NO		NO	bb
3	3	170810M2_4	Standard	150.000	5.03	36907.691	58876.535	7.836	140.7	-6.2	NO		NO	bb
4	4	170810M2_5	Standard	150.000	5.03	37358.246	54908.402	8.505	152.7	1.8	NO		NO	bb
5	5	170810M2_6	Standard	150.000	5.02	34930.285	66408.094	6.575	118.1	-21.3	NO		NO	bb
6	6	170810M2_7	Standard	150.000	5.01	38343.563	50136.242	9.560	171.7	14.5	NO		NO	bb
7	7	170810M2_8	Standard	150.000	5.00	36419.504	55712.629	8.171	146.8	-2.2	NO		NO	bb
8	8	170810M2_9	Standard	150.000	4.98	43820.121	65160.934	8.406	151.0	0.7	NO		NO	bb
9	9	170810M2_10	Standard	150.000	4.97	46286.176	61852.313	9.354	168.0	12.0	NO		NO	bb
10	10	170810M2_11	Standard	150.000	4.97	43106.852	60220.047	8.948	160.7	7.1	NO		NO	bb

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Compound name: 13C2-PFHxDA
Response Factor: 0.92647
RRF SD: 0.0912877, Relative SD: 9.85328
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	5.000	5.29	20425.877	56516.137	4.518	4.9	-2.5	NO		NO	bb
2	2	170810M2_3	Standard	5.000	5.30	20498.971	54058.969	4.740	5.1	2.3	NO		NO	bb
3	3	170810M2_4	Standard	5.000	5.30	21206.127	58876.535	4.502	4.9	-2.8	NO		NO	bb
4	4	170810M2_5	Standard	5.000	5.29	22826.240	54908.402	5.196	5.6	12.2	NO		NO	bb
5	5	170810M2_6	Standard	5.000	5.28	20867.588	66408.094	3.928	4.2	-15.2	NO		NO	bb
6	6	170810M2_7	Standard	5.000	5.29	21425.330	50136.242	5.342	5.8	15.3	NO		NO	bb
7	7	170810M2_8	Standard	5.000	5.28	19445.941	55712.629	4.363	4.7	-5.8	NO		NO	bb
8	8	170810M2_9	Standard	5.000	5.26	23300.309	65160.934	4.470	4.8	-3.5	NO		NO	MM
9	9	170810M2_10	Standard	5.000	5.25	15976.768	61852.313	3.229	3.5	-30.3	NO		NO	bbX
10	10	170810M2_11	Standard	5.000	5.24	11401.953	60220.047	2.367	2.6	-48.9	NO		NO	bbX

Compound name: d7-N-MeFOSE
Response Factor: 0.0594448
RRF SD: 0.00621154, Relative SD: 10.4492
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	150.000	5.26	37456.684	56516.137	8.285	139.4	-7.1	NO		NO	bb
2	2	170810M2_3	Standard	150.000	5.28	37182.391	54058.969	8.598	144.6	-3.6	NO		NO	bb
3	3	170810M2_4	Standard	150.000	5.28	38748.840	58876.535	8.227	138.4	-7.7	NO		NO	bb
4	4	170810M2_5	Standard	150.000	5.27	38784.367	54908.402	8.829	148.5	-1.0	NO		NO	bb
5	5	170810M2_6	Standard	150.000	5.26	37768.906	66408.094	7.109	119.6	-20.3	NO		NO	bb
6	6	170810M2_7	Standard	150.000	5.27	41681.102	50136.242	10.392	174.8	16.5	NO		NO	bb
7	7	170810M2_8	Standard	150.000	5.26	40391.512	55712.629	9.062	152.5	1.6	NO		NO	bb
8	8	170810M2_9	Standard	150.000	5.25	48233.188	65160.934	9.253	155.7	3.8	NO		NO	bb
9	9	170810M2_10	Standard	150.000	5.24	48233.070	61852.313	9.748	164.0	9.3	NO		NO	bb
10	10	170810M2_11	Standard	150.000	5.24	46562.453	60220.047	9.665	162.6	8.4	NO		NO	bb

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Compound name: d9-N-EtFOSE
Response Factor: 0.0594811
RRF SD: 0.00676808, Relative SD: 11.3785
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	150.000	5.44	36366.551	56516.137	8.043	135.2	-9.8	NO		NO	bb
2	2	170810M2_3	Standard	150.000	5.45	37921.910	54058.969	8.769	147.4	-1.7	NO		NO	bb
3	3	170810M2_4	Standard	150.000	5.44	37938.703	58876.535	8.055	135.4	-9.7	NO		NO	bb
4	4	170810M2_5	Standard	150.000	5.44	39692.059	54908.402	9.036	151.9	1.3	NO		NO	bb
5	5	170810M2_6	Standard	150.000	5.44	37298.547	66408.094	7.021	118.0	-21.3	NO		NO	bb
6	6	170810M2_7	Standard	150.000	5.44	39826.883	50136.242	9.930	166.9	11.3	NO		NO	bb
7	7	170810M2_8	Standard	150.000	5.43	39464.043	55712.629	8.854	148.9	-0.8	NO		NO	bb
8	8	170810M2_9	Standard	150.000	5.42	48142.445	65160.934	9.235	155.3	3.5	NO		NO	bb
9	9	170810M2_10	Standard	150.000	5.41	50641.645	61852.313	10.234	172.1	14.7	NO		NO	bb
10	10	170810M2_11	Standard	150.000	5.41	48390.172	60220.047	10.044	168.9	12.6	NO		NO	bb

Compound name: 13C4-PFBA
Response Factor: 1
RRF SD: 7.40149e-017, Relative SD: 7.40149e-015
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	1.91	17253.230	17253.230	12.500	12.5	0.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	1.92	17209.924	17209.924	12.500	12.5	0.0	NO		NO	bb
3	3	170810M2_4	Standard	12.500	1.92	17869.518	17869.518	12.500	12.5	0.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	1.91	17173.609	17173.609	12.500	12.5	0.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	1.91	18114.355	18114.355	12.500	12.5	0.0	NO		NO	bb
6	6	170810M2_7	Standard	12.500	1.91	18442.018	18442.018	12.500	12.5	0.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	1.92	17753.158	17753.158	12.500	12.5	0.0	NO		NO	bb
8	8	170810M2_9	Standard	12.500	1.91	21098.885	21098.885	12.500	12.5	0.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	1.90	20835.586	20835.586	12.500	12.5	0.0	NO		NO	bb
10	10	170810M2_11	Standard	12.500	1.90	20606.902	20606.902	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	5.000	3.32	38245.879	38245.879	5.000	5.0	0.0	NO		NO	bb
2	2	170810M2_3	Standard	5.000	3.32	40090.316	40090.316	5.000	5.0	0.0	NO		NO	bb
3	3	170810M2_4	Standard	5.000	3.32	41622.215	41622.215	5.000	5.0	0.0	NO		NO	bb
4	4	170810M2_5	Standard	5.000	3.32	39798.098	39798.098	5.000	5.0	0.0	NO		NO	bb
5	5	170810M2_6	Standard	5.000	3.32	41689.316	41689.316	5.000	5.0	0.0	NO		NO	bb
6	6	170810M2_7	Standard	5.000	3.32	41735.027	41735.027	5.000	5.0	0.0	NO		NO	bb
7	7	170810M2_8	Standard	5.000	3.32	39240.863	39240.863	5.000	5.0	0.0	NO		NO	bb
8	8	170810M2_9	Standard	5.000	3.31	46120.840	46120.840	5.000	5.0	0.0	NO		NO	bb
9	9	170810M2_10	Standard	5.000	3.30	45642.266	45642.266	5.000	5.0	0.0	NO		NO	bb
10	10	170810M2_11	Standard	5.000	3.30	44306.922	44306.922	5.000	5.0	0.0	NO		NO	bb

Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.65	7282.960	7282.960	12.500	12.5	0.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.65	8095.660	8095.660	12.500	12.5	0.0	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.65	8554.390	8554.390	12.500	12.5	0.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.64	9118.271	9118.271	12.500	12.5	0.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.64	8806.590	8806.590	12.500	12.5	0.0	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.64	8875.088	8875.088	12.500	12.5	0.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.64	8462.481	8462.481	12.500	12.5	0.0	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.63	9360.616	9360.616	12.500	12.5	0.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.63	9070.533	9070.533	12.500	12.5	0.0	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.62	8491.929	8491.929	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C8-PFOA
Response Factor: 1
RRF SD: 1.11022e-016, Relative SD: 1.11022e-014
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.78	54603.613	54603.613	12.500	12.5	0.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.78	58987.684	58987.684	12.500	12.5	0.0	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.79	60428.516	60428.516	12.500	12.5	0.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.78	61095.281	61095.281	12.500	12.5	0.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.78	56983.695	56983.695	12.500	12.5	0.0	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.78	53819.109	53819.109	12.500	12.5	0.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.78	52844.020	52844.020	12.500	12.5	0.0	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.76	63696.625	63696.625	12.500	12.5	0.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.76	61971.621	61971.621	12.500	12.5	0.0	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.76	53950.348	53950.348	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 8.27511e-017, Relative SD: 8.27511e-015
Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	3.97	62822.277	62822.277	12.500	12.5	0.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	3.98	69006.492	69006.492	12.500	12.5	0.0	NO		NO	bb
3	3	170810M2_4	Standard	12.500	3.98	64031.563	64031.563	12.500	12.5	0.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	3.97	63786.367	63786.367	12.500	12.5	0.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	3.97	59683.719	59683.719	12.500	12.5	0.0	NO		NO	bb
6	6	170810M2_7	Standard	12.500	3.97	67704.961	67704.961	12.500	12.5	0.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	3.97	61617.066	61617.066	12.500	12.5	0.0	NO		NO	bb
8	8	170810M2_9	Standard	12.500	3.96	67146.039	67146.039	12.500	12.5	0.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	3.96	65393.742	65393.742	12.500	12.5	0.0	NO		NO	bb
10	10	170810M2_11	Standard	12.500	3.95	55705.484	55705.484	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.03	10014.264	10014.264	12.500	12.5	0.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.03	11495.998	11495.998	12.500	12.5	0.0	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.04	10441.012	10441.012	12.500	12.5	0.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.03	10602.818	10602.818	12.500	12.5	0.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.03	10918.573	10918.573	12.500	12.5	0.0	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.03	9895.137	9895.137	12.500	12.5	0.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.03	10000.603	10000.603	12.500	12.5	0.0	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.02	11222.943	11222.943	12.500	12.5	0.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.01	10708.807	10708.807	12.500	12.5	0.0	NO		NO	bb
10	10	170810M2_11	Standard	12.500	4.01	8584.092	8584.092	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 8.27511e-017, Relative SD: 8.27511e-015
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.16	62130.031	62130.031	12.500	12.5	0.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.16	56889.133	56889.133	12.500	12.5	0.0	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.16	63530.797	63530.797	12.500	12.5	0.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.16	56949.430	56949.430	12.500	12.5	0.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.16	58825.063	58825.063	12.500	12.5	0.0	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.16	57823.469	57823.469	12.500	12.5	0.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.15	53425.855	53425.855	12.500	12.5	0.0	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.14	62756.719	62756.719	12.500	12.5	0.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.13	62057.383	62057.383	12.500	12.5	0.0	NO		NO	bb
10	10	170810M2_11	Standard	12.500	4.13	47017.207	47017.207	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C7-PFUnA
Response Factor: 1
RRF SD: 3.70074e-017, Relative SD: 3.70074e-015
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170810M2_2	Standard	12.500	4.33	56516.137	56516.137	12.500	12.5	0.0	NO		NO	bb
2	2	170810M2_3	Standard	12.500	4.34	54058.969	54058.969	12.500	12.5	0.0	NO		NO	bb
3	3	170810M2_4	Standard	12.500	4.34	58876.535	58876.535	12.500	12.5	0.0	NO		NO	bb
4	4	170810M2_5	Standard	12.500	4.34	54908.402	54908.402	12.500	12.5	0.0	NO		NO	bb
5	5	170810M2_6	Standard	12.500	4.33	66408.094	66408.094	12.500	12.5	0.0	NO		NO	bb
6	6	170810M2_7	Standard	12.500	4.33	50136.242	50136.242	12.500	12.5	0.0	NO		NO	bb
7	7	170810M2_8	Standard	12.500	4.32	55712.629	55712.629	12.500	12.5	0.0	NO		NO	bb
8	8	170810M2_9	Standard	12.500	4.31	65160.934	65160.934	12.500	12.5	0.0	NO		NO	bb
9	9	170810M2_10	Standard	12.500	4.30	61852.313	61852.313	12.500	12.5	0.0	NO		NO	bb
10	10	170810M2_11	Standard	12.500	4.30	60220.047	60220.047	12.500	12.5	0.0	NO		NO	bb

Sample List Report **MassLynx MassLynx V4.1 SCN945 SCN960**

Sample List: U:\Q4.PRO\SampleDB\170810M2.SPL
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	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
1	170810M2_1	---	IPA	IPA	1.0000	1:48	Blank
2	170810M2_2	---	ST170810M2-1 PFC CS-2 17H1015	PFC CS-2 17H1015	1.0000	1:1	Standard
3	170810M2_3	---	ST170810M2-2 PFC CS-1 17H1003	PFC CS-1 17H1003	1.0000	1:2	Standard
4	170810M2_4	---	ST170810M2-3 PFC CS0 17H1004	PFC CS0 17H1004	1.0000	1:3	Standard
5	170810M2_5	---	ST170810M2-4 PFC CS1 17H1016	PFC CS1 17H1016	1.0000	1:4	Standard
6	170810M2_6	---	ST170810M2-5 PFC CS2 17H1017	PFC CS2 17H1017	1.0000	1:5	Standard
7	170810M2_7	---	ST170810M2-6 PFC CS3 17H1005	PFC CS3 17H1005	1.0000	1:6	Standard
8	170810M2_8	---	ST170810M2-7 PFC CS4 17H1018	PFC CS4 17H1018	1.0000	1:7	Standard
9	170810M2_9	---	ST170810M2-8 PFC CS5 17H1019	PFC CS5 17H1019	1.0000	1:8	Standard
10	170810M2_10	---	ST170810M2-9 PFC CS6 17H1013	PFC CS6 17H1013	1.0000	1:9	Standard
11	170810M2_11	---	ST170810M2-10 PFC CS7 17H1012	PFC CS7 17H1012	1.0000	1:10	Analyte
12	170810M2_12	---	IPA	IPA	1.0000	1:48	Blank
13	170810M2_13	---	SS170810M2-1 PFC SSS 17H1020	PFC SSS 17H1020	1.0000	1:11	Analyte
14	170810M2_14	---	IPA	IPA	1.0000	1:48	Blank
15	170810M2_15	O	1700946-05RE1 MATP05077 1.06	MATP05077	1.0233	1:12	Analyte
16	170810M2_16	---	IPA	IPA	1.0000	1:48	Blank
17	170810M2_17	O	1700946-05RE1@5X MATP05077 1.06	MATP05077	1.0233	1:13	Analyte
18	170810M2_18	---	IPA	IPA	1.0000	1:48	Blank
19	170810M2_19	X	B7H0026-BS1 OPR 1	OPR	1.0000	1:14	Analyte
20	170810M2_20	---	IPA	IPA	1.0000	1:48	Blank
21	170810M2_21	X	B7H0026-BLK1 Method Blank 1	Method Blank	1.0000	1:15	Analyte
22	170810M2_22	---	IPA	IPA	1.0000	1:48	Blank
23	170810M2_23	X	1700946-01 MATP05073 1	MATP05073	1.0000	1:16	Analyte
24	170810M2_24	X	1700946-02 MATP05074 1	MATP05074	1.0000	1:17	Analyte
25	170810M2_25	X	1700946-03 MATP05075 1	MATP05075	1.0000	1:18	Analyte
26	170810M2_26	---	1700946-05 MATP05077 1	MATP05077	1.0000	1:19	Analyte
27	170810M2_27	---	IPA	IPA	1.0000	1:48	Blank
28	170810M2_28	X	1700946-04 MATP05076 1	MATP05076	1.0000	1:20	Analyte
29	170810M2_29	---	IPA	IPA	1.0000	1:48	Blank
30	170810M2_30	---	1700946-05@10X MATP05077 1	MATP05077	1.0000	1:22	Analyte
31	170810M2_31	---	IPA	IPA	1.0000	1:48	Blank
32	170810M2_32	X	1700946-04@10X MATP05076 1	MATP05076	1.0000	1:23	Analyte
33	170810M2_33	---	IPA	IPA	1.0000	1:48	Blank
34	170810M2_34	---	B7H0037-BS1 OPR 0.125	OPR	0.2500	1:24	Analyte
35	170810M2_35	---	IPA	IPA	1.0000	1:48	Blank
36	170810M2_36	X	1701010-02@10X VEL-FOAM-080317 0.125	VEL-FOAM-080317	0.0065	1:25	Analyte
37	170810M2_37	---	IPA	IPA	1.0000	1:48	Blank
38	170810M2_38	---	ST170810M2-11 PFC CS3 17H1005	PFC CS3 17H1005	1.0000	1:6	Standard
39	170810M2_39	---	IPA	IPA	1.0000	1:48	Blank
40	170810M2_40	X	1701010-02 VEL-FOAM-080317 0.125	VEL-FOAM-080317	0.1250	1:26	Analyte

(A) Column was changed, new curve run due to slight shifts in RT. OM 8/11/17 OM 8/10/17

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
41	170810M2_41	---	IPA	IPA	1.0000	1:48	Blank
42	170810M2_42	---	B7H0060-BS1 OPR 2.5	OPR	2.5000	1:27	Analyte
43	170810M2_43	---	B7H0073-BS1 OPR 0.125	OPR	0.1250	1:28	Analyte
44	170810M2_44	---	B7H0074-BS1 OPR 0.125	OPR	0.1250	1:29	Analyte
45	170810M2_45	---	B7H0060-BLK1 Method Blank 2.5	Method Blank	2.5000	1:30	Analyte
46	170810M2_46	---	B7H0073-BLK1 Method Blank 0.125	Method Blank	0.1250	1:31	Analyte
47	170810M2_47	---	B7H0074-BLK1 Method Blank 0.125	Method Blank	0.1250	1:32	Analyte
48	170810M2_48	---	B7H0073-MS1 Matrix Spike 0.0005	Matrix Spike	0.0005	1:33	Analyte
49	170810M2_49	---	IPA	IPA	1.0000	1:48	Blank
50	170810M2_50	---	B7H0073-MSD1 Matrix Spike Dup 0.00139	Matrix Spike Dup	0.0014	1:34	Analyte
51	170810M2_51	---	IPA	IPA	1.0000	1:48	Blank
52	170810M2_52	---	B7H0074-MS1 Matrix Spike 0.125	Matrix Spike	0.1250	1:35	Analyte
53	170810M2_53	---	B7H0074-MSD1 Matrix Spike Dup 0.125	Matrix Spike Dup	0.1250	1:36	Analyte
54	170810M2_54	---	1700819-01RE1 QPFD-14 2.5	QPFD-14	2.5000	1:37	Analyte
55	170810M2_55	---	1700819-02RE1 QPFD-15 2.5	QPFD-15	2.5000	1:38	Analyte
56	170810M2_56	---	IPA	IPA	1.0000	1:48	Blank
57	170810M2_57	---	1700819-03RE1 QPFD-16 2.5	QPFD-16	2.5000	1:39	Analyte
58	170810M2_58	---	1700819-04RE1 QPFD-17 2	QPFD-17	2.0000	1:40	Analyte
59	170810M2_59	---	1700819-05RE1 QPFD-18 2.5	QPFD-18	2.5000	1:41	Analyte
60	170810M2_60	---	1700819-06RE1 QPFD-19 2.5	QPFD-19	2.5000	1:42	Analyte
61	170810M2_61	---	1700819-07RE1 QPFD-20 2.5	QPFD-20	2.5000	1:43	Analyte
62	170810M2_62	---	1700819-08RE1 QPFD-21 2.5	QPFD-21	2.5000	1:44	Analyte
63	170810M2_63	---	1700819-09RE1 QPFD-22 2.5	QPFD-22	2.5000	1:45	Analyte
64	170810M2_64	---	1700819-10RE1 QPFD-23 2.5	QPFD-23	2.5000	1:46	Analyte
65	170810M2_65	---	IPA	IPA	1.0000	1:48	Blank
66	170810M2_66	---	ST170810M2-12 PFC CS0 17H1004	PFC CS0 17H1004	1.0000	1:3	Standard
67	170810M2_67	---	IPA	IPA	1.0000	1:48	Blank
68	170810M2_68	---	1700819-11RE1 QPFD-24 2.5	QPFD-24	2.5000	1:47	Analyte
69	170810M2_69	---	1700819-12RE1 QPFD-25 2.5	QPFD-25	2.5000	2:1	Analyte
70	170810M2_70	---	1700819-13RE1 QPFD-26 2.5	QPFD-26	2.5000	2:2	Analyte
71	170810M2_71	---	1700925-04RE2 I001MW52S-170724 0.00122	I001MW52S-170724	0.0012	2:3	Analyte
72	170810M2_72	---	IPA	IPA	1.0000	1:48	Blank
73	170810M2_73	---	1700925-05RE2 I001MW52X-170724 0.00133	I001MW52X-170724	0.0013	2:4	Analyte
74	170810M2_74	---	IPA	IPA	1.0000	1:48	Blank
75	170810M2_75	---	1700922-01RE1 MH-L103-20170721 0.10565	MH-L103-20170721	0.1056	2:5	Analyte
76	170810M2_76	---	1700922-02RE1 MH-N104-20170721 0.11025	MH-N104-20170721	0.1103	2:6	Analyte
77	170810M2_77	---	1700922-03RE1 Upstream-Culvert-109-20170721 0.1185	Upstream-Culvert-109-20170721	0.1185	2:7	Analyte
78	170810M2_78	---	1700922-04RE1 FRB03-20170721 0.11017	FRB03-20170721	0.1102	2:8	Analyte
79	170810M2_79	---	1700922-05RE1 RB08-20170720 0.11893	RB08-20170720	0.1189	2:9	Analyte
80	170810M2_80	---	IPA	IPA	1.0000	1:48	Blank

	File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
		am 8/4/17	(A) (B) am 8/4/17				
81	170810M2_81	X	ST170810M2-13 PFC CS3 17H1005	PFC CS3 17H1005	1.0000	1:6	Analyte
82	170810M2_82	---	IPA	IPA	1.0000	1:48	Blank
83	170810M2_83	---	(B) 1700922-06RE1 RB09-20170721 0.11676	RB09-20170721	0.1168	2:10	Analyte
84	170810M2_84	---	1700925-01RE1 I001BC43S-170724 0.12112	I001BC43S-170724	0.1211	2:11	Analyte
85	170810M2_85	---	1700925-02RE1 SB01-170724 0.12178	SB01-170724	0.1218	2:12	Analyte
86	170810M2_86	---	1700925-03RE1 I001BC50S-170724 0.12135	I001BC50S-170724	0.1214	2:13	Analyte
87	170810M2_87	---	1700925-06RE1 EB01-170724 0.1185	EB01-170724	0.1185	2:14	Analyte
88	170810M2_88	---	1700929-01RE1 MATP01001 0.11834	MATP01001	0.1183	2:15	Analyte
89	170810M2_89	---	1700929-02RE1 MATP01002 0.1157	MATP01002	0.1157	2:16	Analyte
90	170810M2_90	---	1700938-01RE1 NORP08102 0.11844	NORP08102	0.1184	2:17	Analyte
91	170810M2_91	---	1700938-02RE1 NORP08103 0.12014	NORP08103	0.1201	2:18	Analyte
92	170810M2_92	---	1700938-03RE1 NORP08104 0.11247	NORP08104	0.1125	2:19	Analyte
93	170810M2_93	---	IPA	IPA	1.0000	1:48	Blank
94	170810M2_94	---	ST170810M2-14 PFC CS3 17H1005	PFC CS3 17H1005	1.0000	1:6	Standard
95	170810M2_95	---	IPA	IPA	1.0000	1:48	Blank
96	170810M2_96	---	1700819-02RE1 QPFD-15 2.5 (2.5X)	QPFD-15	2.5000	1:21	Analyte
97	170810M2_97	---	IPA	IPA	1.0000	1:48	Blank
98	170810M2_98	---	B7H0073-MS1@20X Matrix Spike 0.0005	Matrix Spike	0.0005	2:20	Analyte
99	170810M2_99	---	IPA	IPA	1.0000	1:48	Blank
100	170810M2_100	---	B7H0073-MSD1@20X Matrix Spike Dup 0.00139	Matrix Spike Dup	0.0014	2:21	Analyte
101	170810M2_101	---	IPA	IPA	1.0000	1:48	Blank
102	170810M2_102	---	1700925-04RE2 I001MW52S-170724 0.00122	I001MW52S-170724	0.0012	2:22	Analyte
103	170810M2_103	---	IPA	IPA	1.0000	1:48	Blank
104	170810M2_104	---	1700925-05RE2 I001MW52X-170724 0.00133	I001MW52X-170724	0.0013	2:23	Analyte
105	170810M2_105	---	IPA	IPA	1.0000	1:48	Blank
106	170810M2_106	X	ST170810M2-15 PFC CS3 17H1005	PFC CS3 17H1005	1.0000	1:6	Analyte
107	170810M2_107	---	IPA	IPA	1.0000	1:48	Blank

(B) PFDoA, PFTrDA, PFTeDA, PFODA, & PFHxDA shifted out of window, samples not injected. am 8/4/17

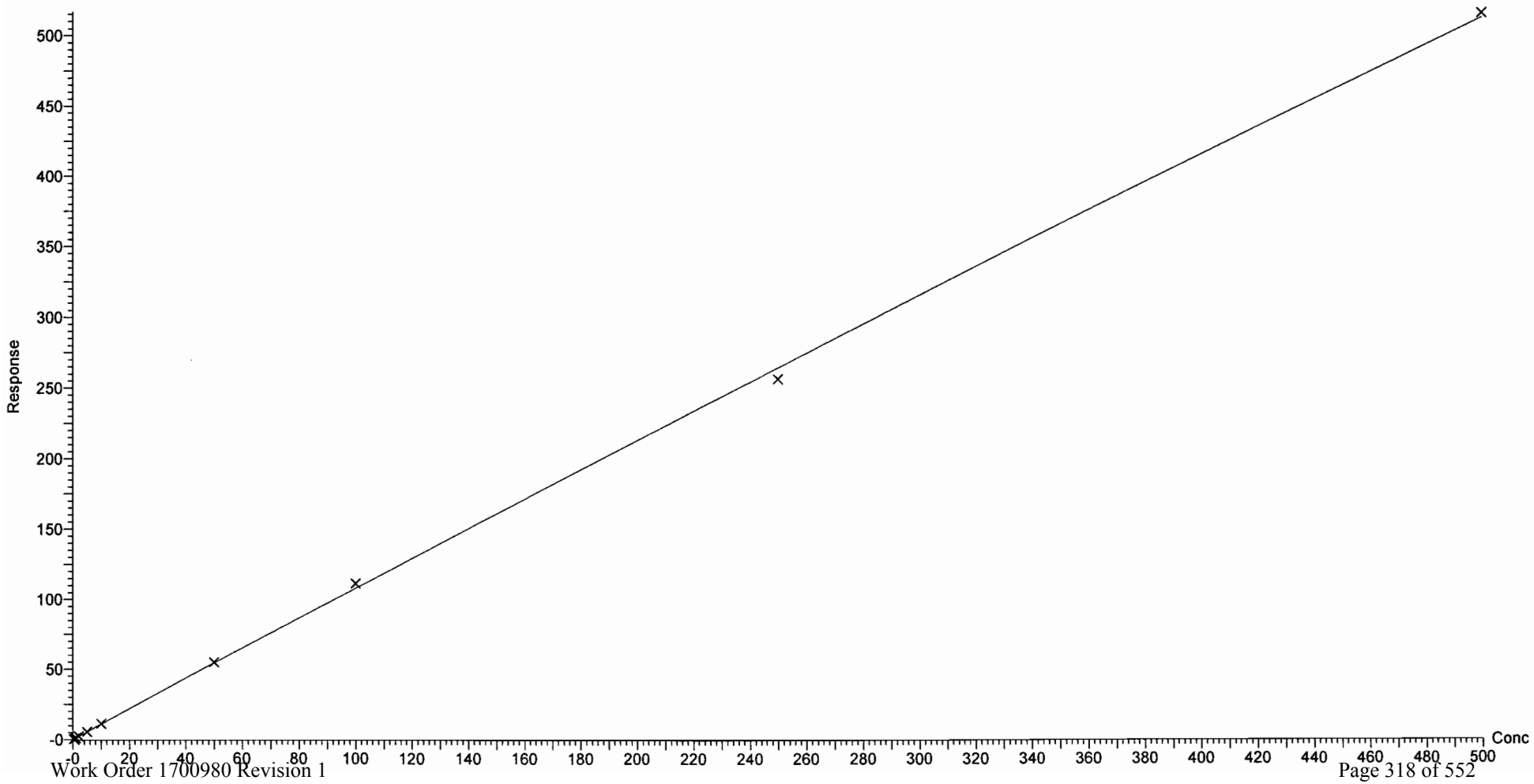
Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-10-17.mdb 11 Aug 2017 08:55:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

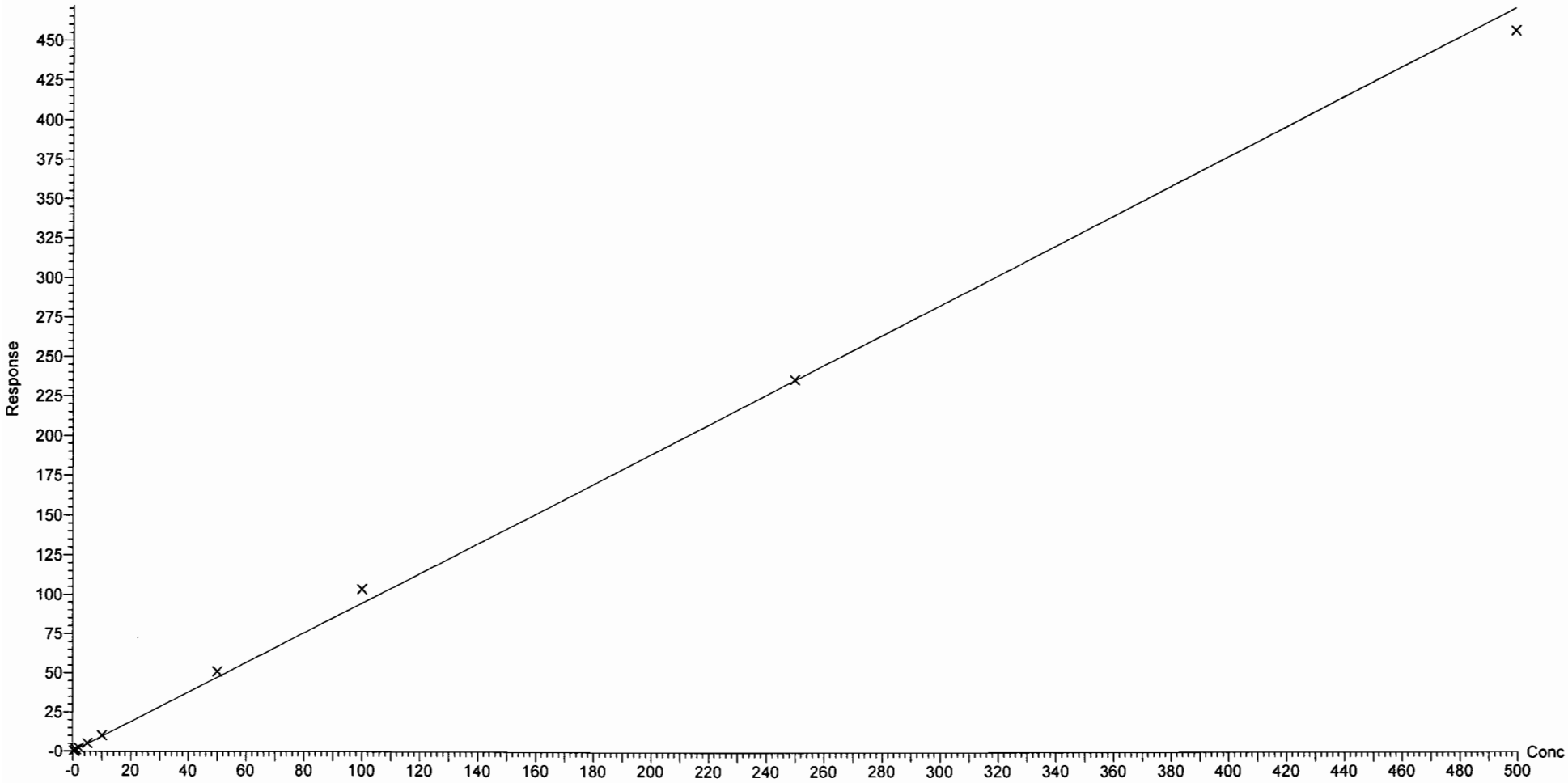
Compound name: PFBA
Coefficient of Determination: R^2 = 0.999558
Calibration curve: -0.000132012 * x^2 + 1.09237 * x + 0.0597566
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

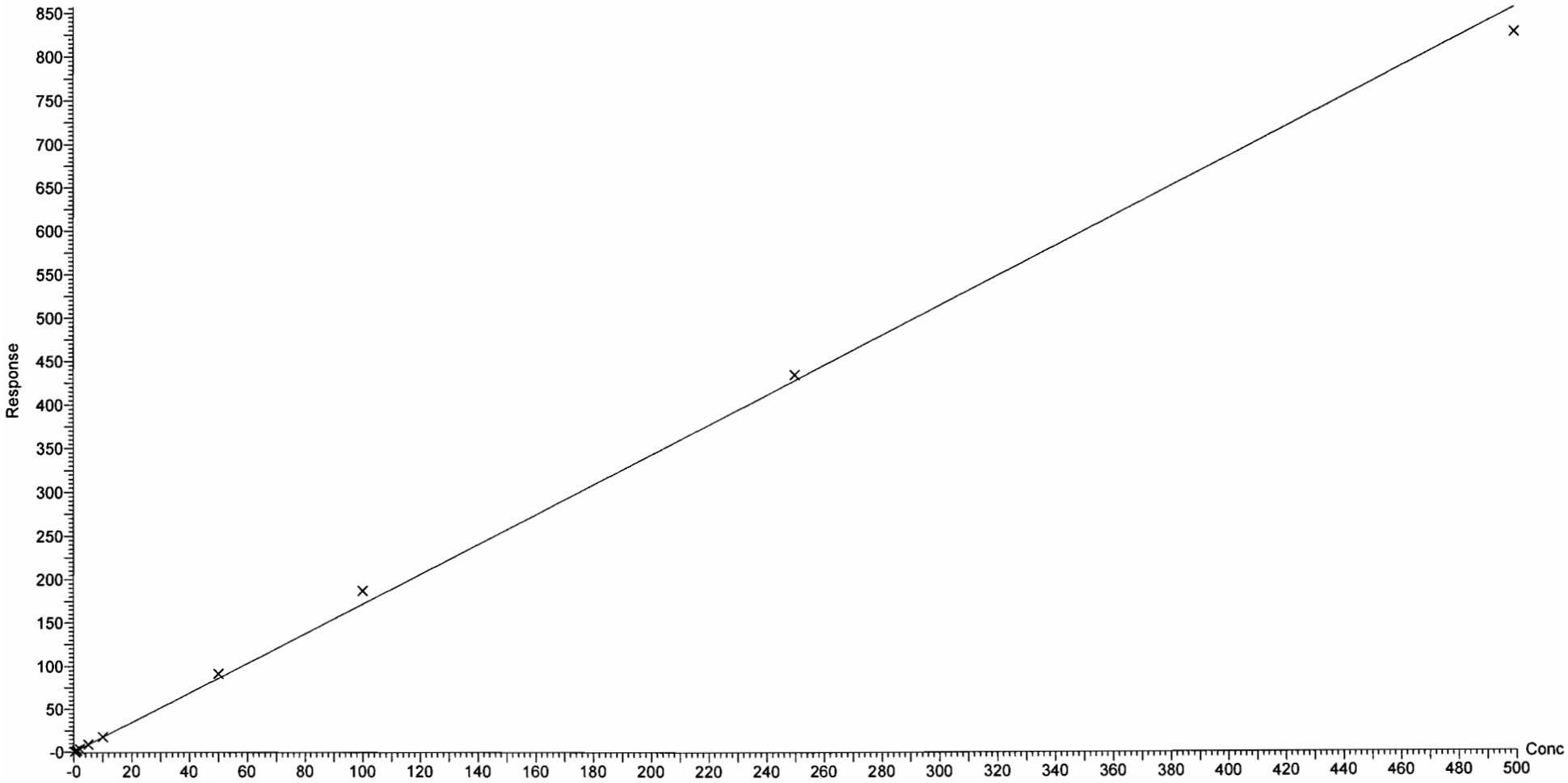
Compound name: PFPeA
Correlation coefficient: r = 0.999003, r^2 = 0.998007
Calibration curve: 0.943317 * x + 0.117613
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

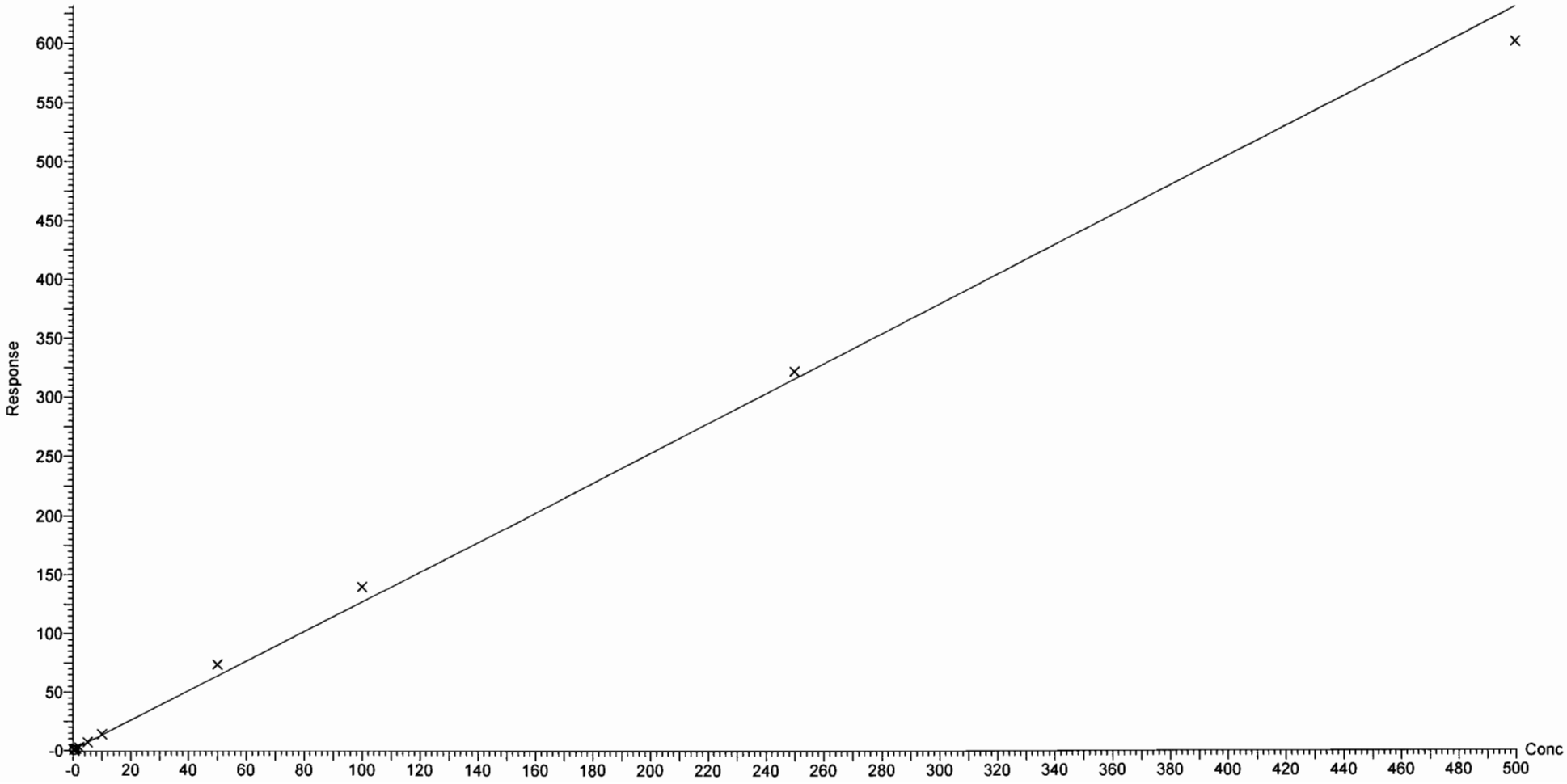
Compound name: PFBS
Correlation coefficient: r = 0.999068, r^2 = 0.998137
Calibration curve: 1.7128 * x + 0.180452
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

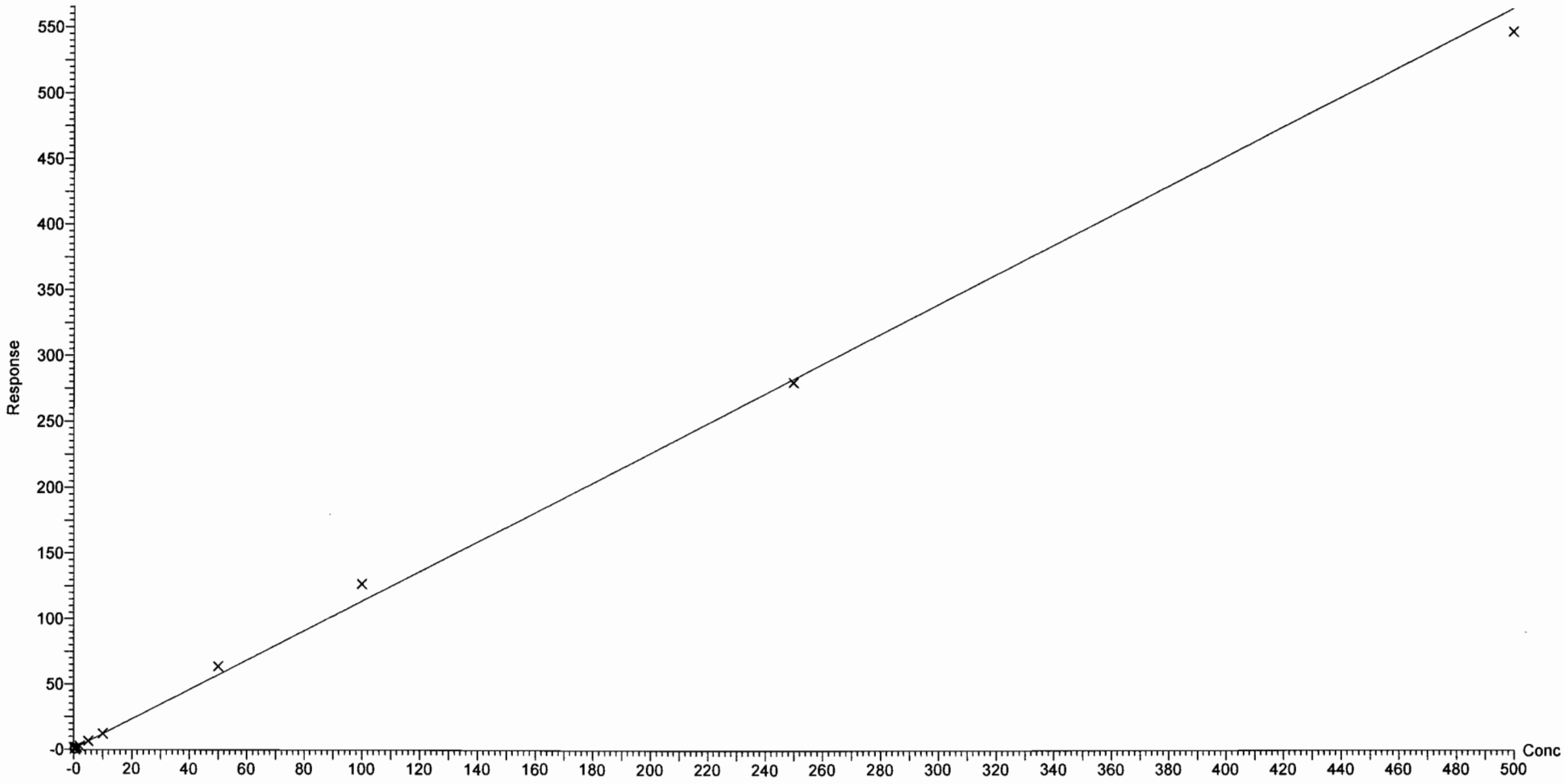
Compound name: PFHxA
Correlation coefficient: r = 0.997990, r^2 = 0.995984
Calibration curve: 1.26213 * x + 0.638423
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

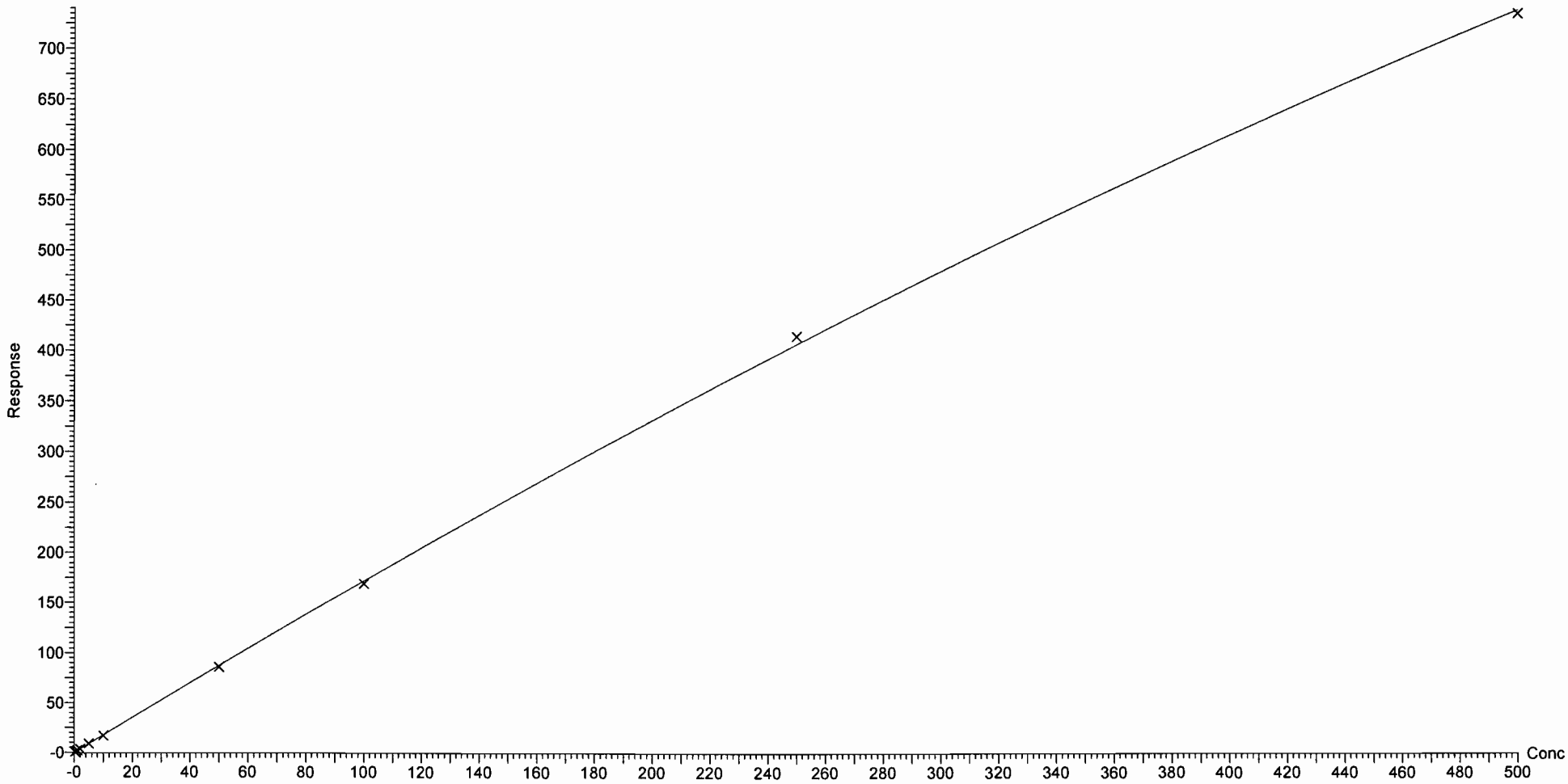
Compound name: PFHpA
Correlation coefficient: r = 0.998520, r^2 = 0.997041
Calibration curve: 1.13042 * x + 0.520352
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

Compound name: PFHxS
Coefficient of Determination: R^2 = 0.999727
Calibration curve: -0.00059344 * x^2 + 1.77788 * x + -0.123769
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

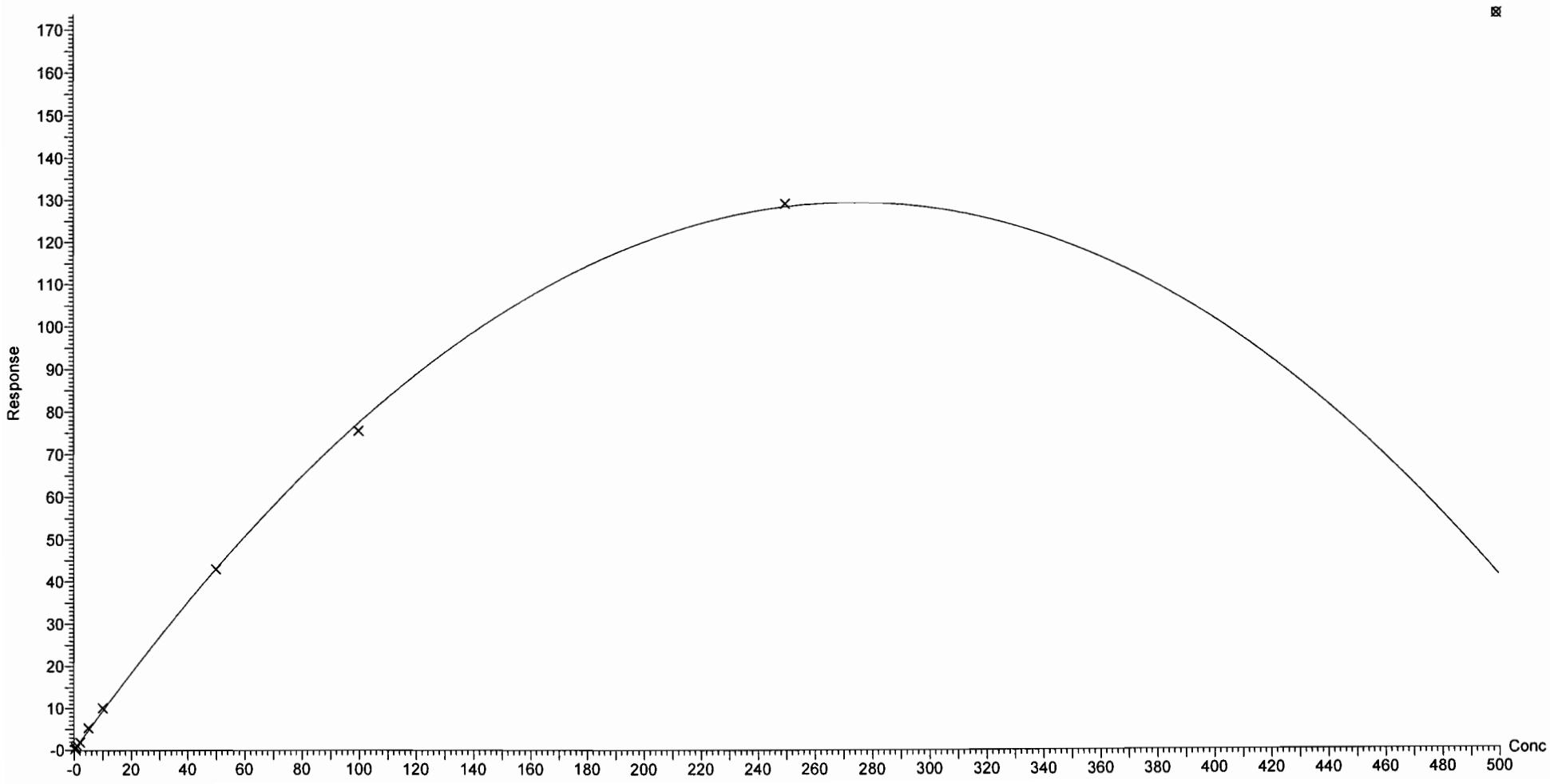


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

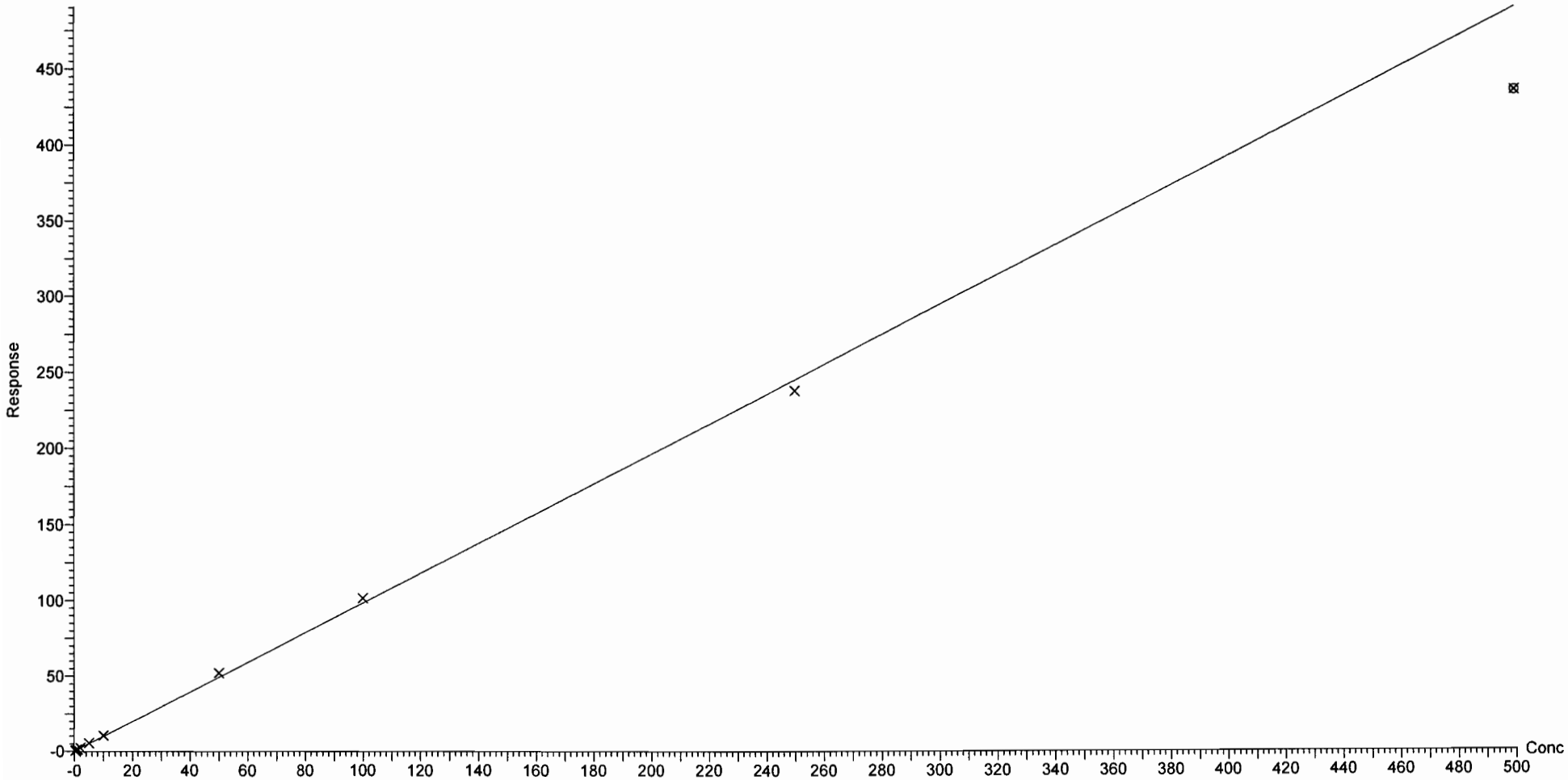
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.998948
Calibration curve: -0.00172688 * x^2 + 0.945449 * x + 0.0555048
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

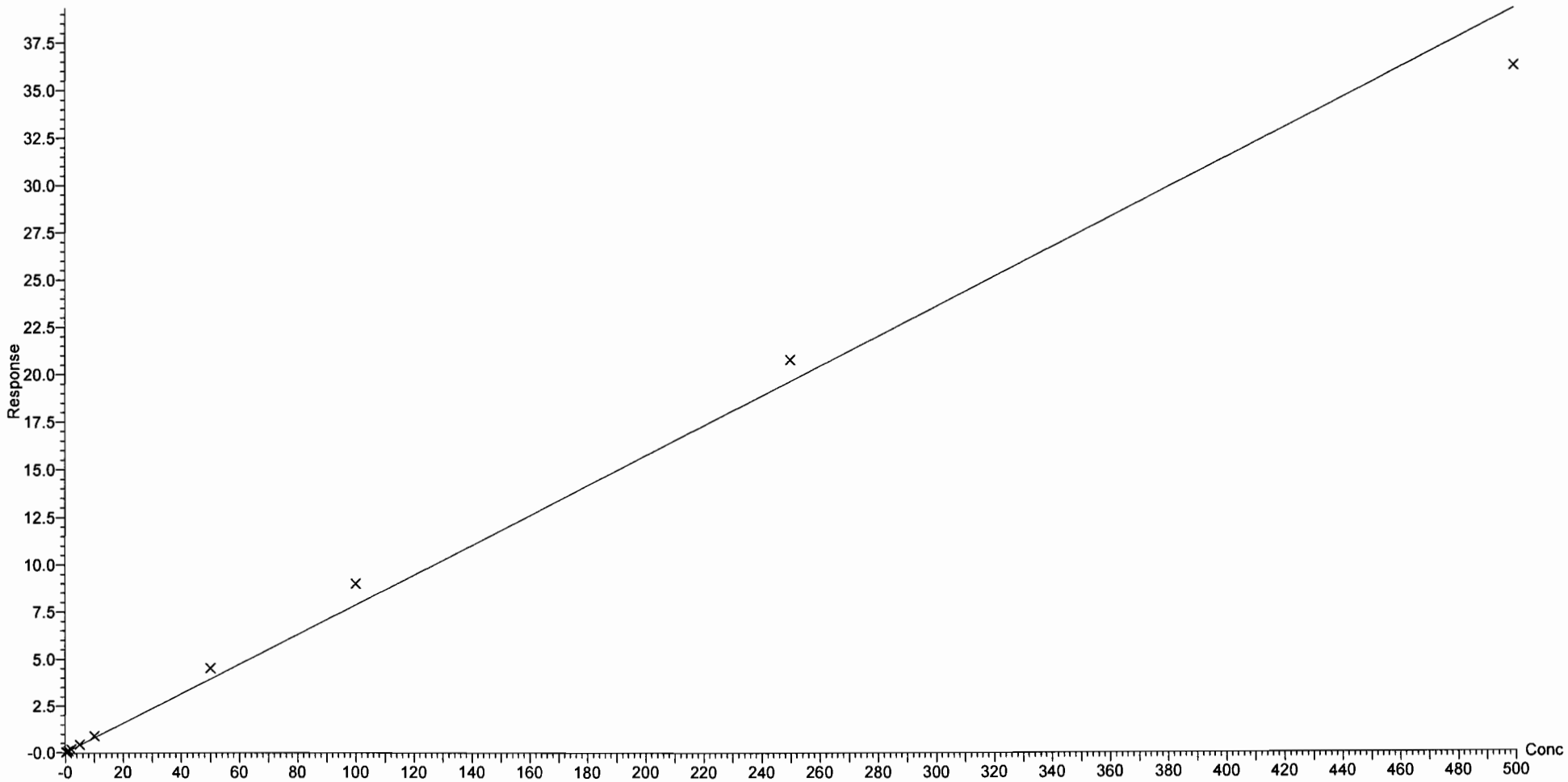
Compound name: PFOA
Correlation coefficient: r = 0.999304, r^2 = 0.998608
Calibration curve: 0.980416 * x + 0.151461
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

Compound name: PFHpS
Correlation coefficient: r = 0.995991, r^2 = 0.991997
Calibration curve: 0.0786311 * x + 0.00779766
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

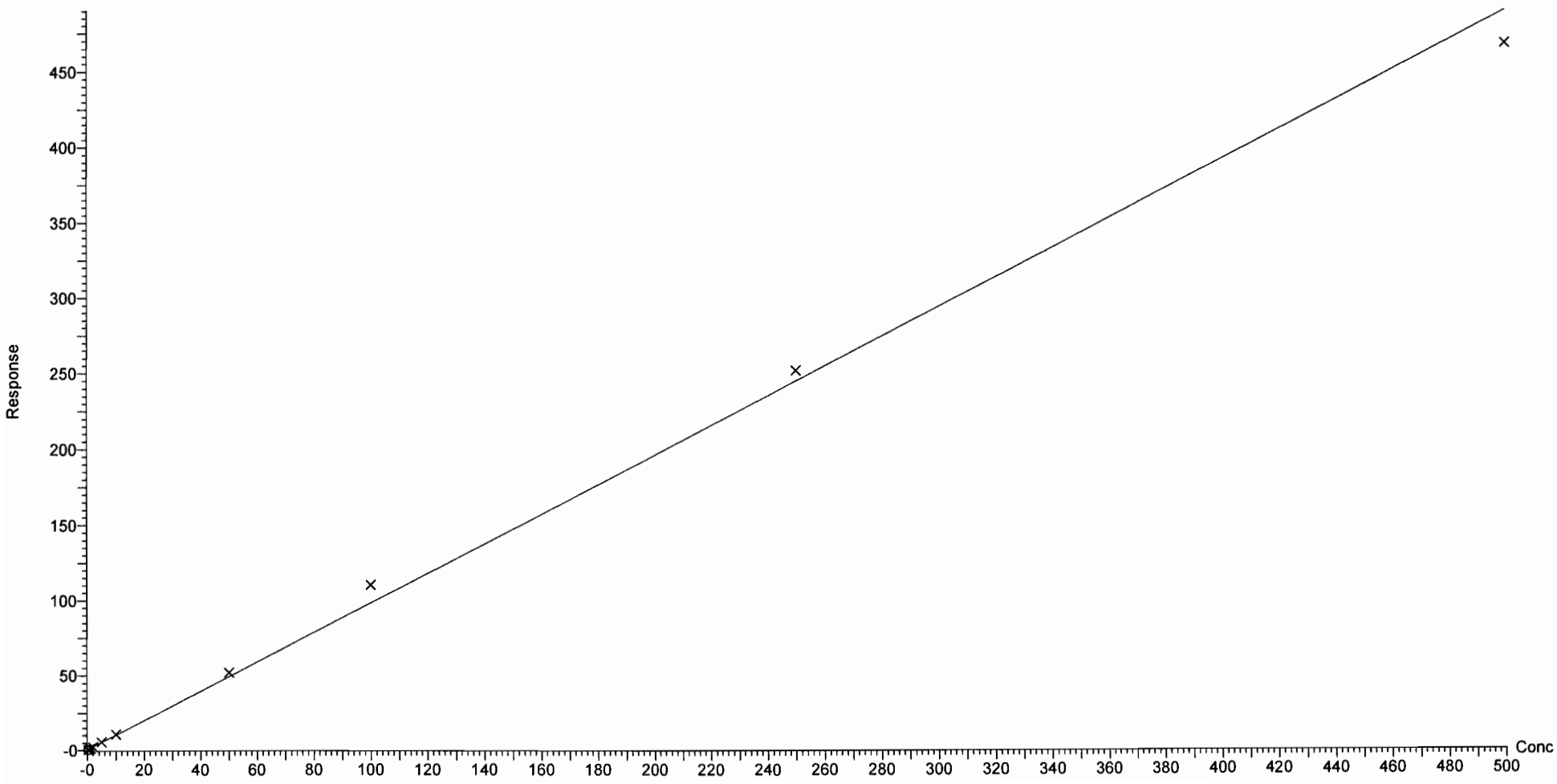


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

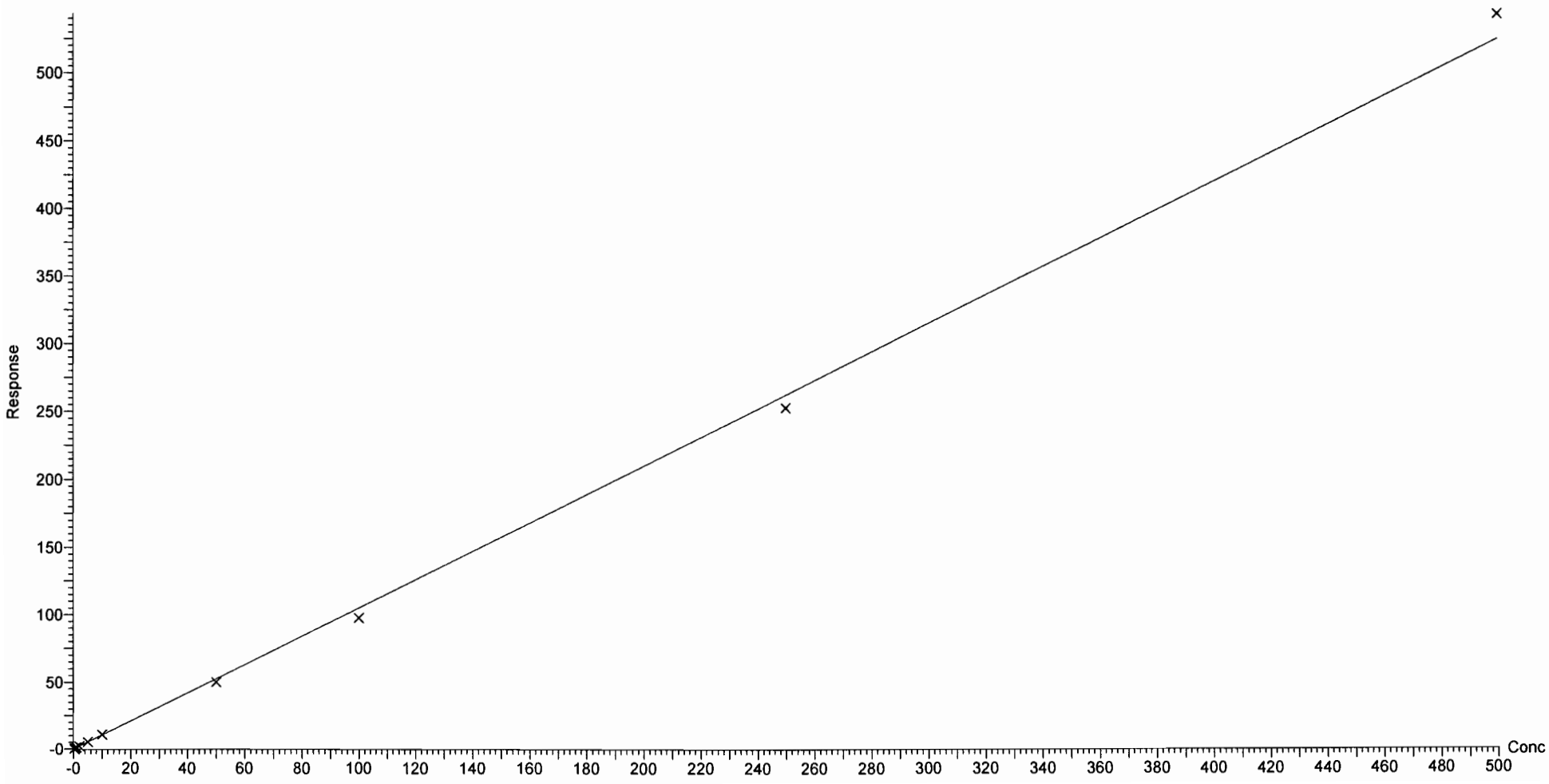
Compound name: PFNA
Correlation coefficient: r = 0.998366, r^2 = 0.996735
Calibration curve: 0.979826 * x + 0.513479
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

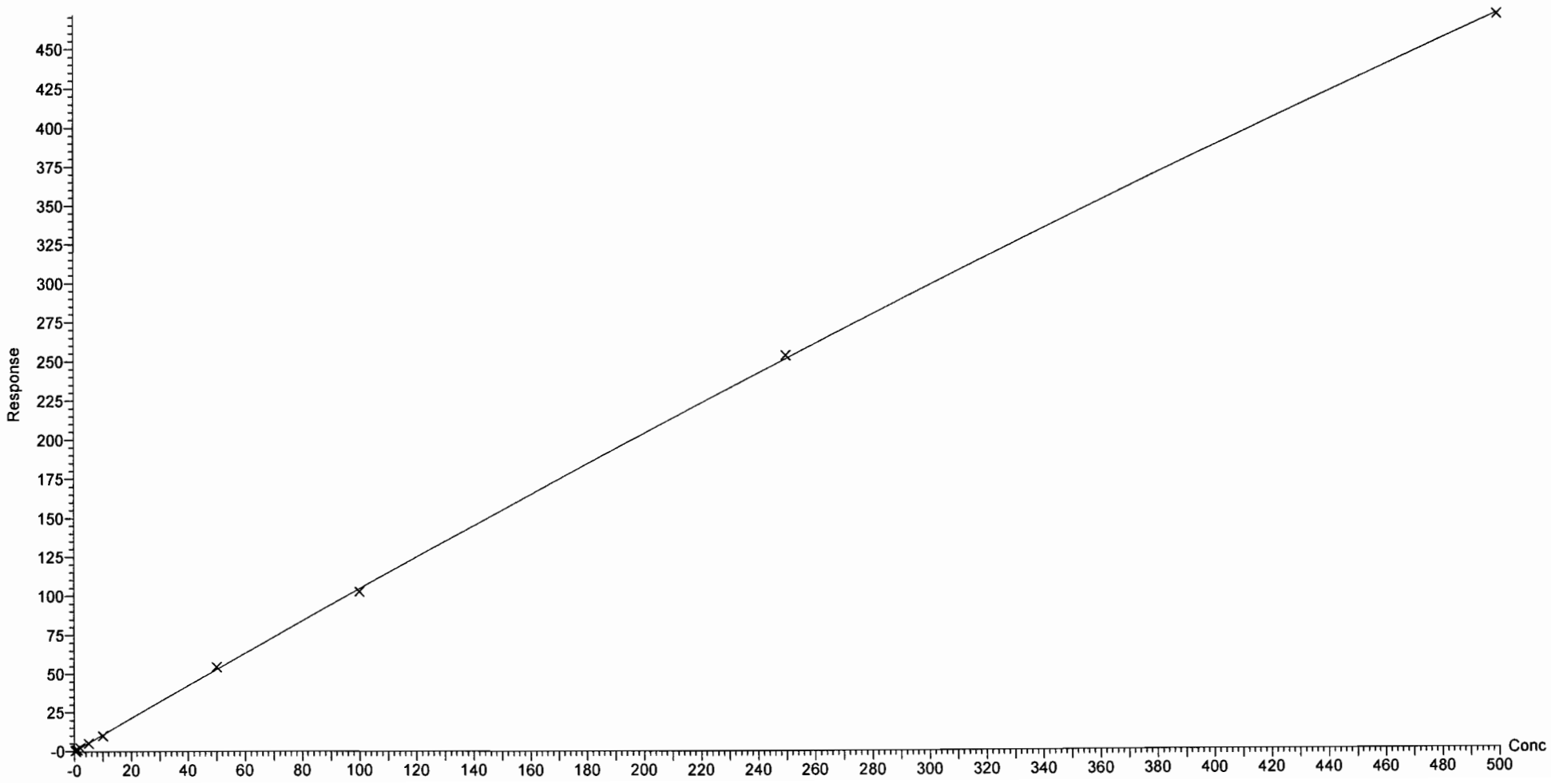
Compound name: PFOSA
Correlation coefficient: r = 0.999155, r^2 = 0.998311
Calibration curve: 1.04987 * x + 0.0313857
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

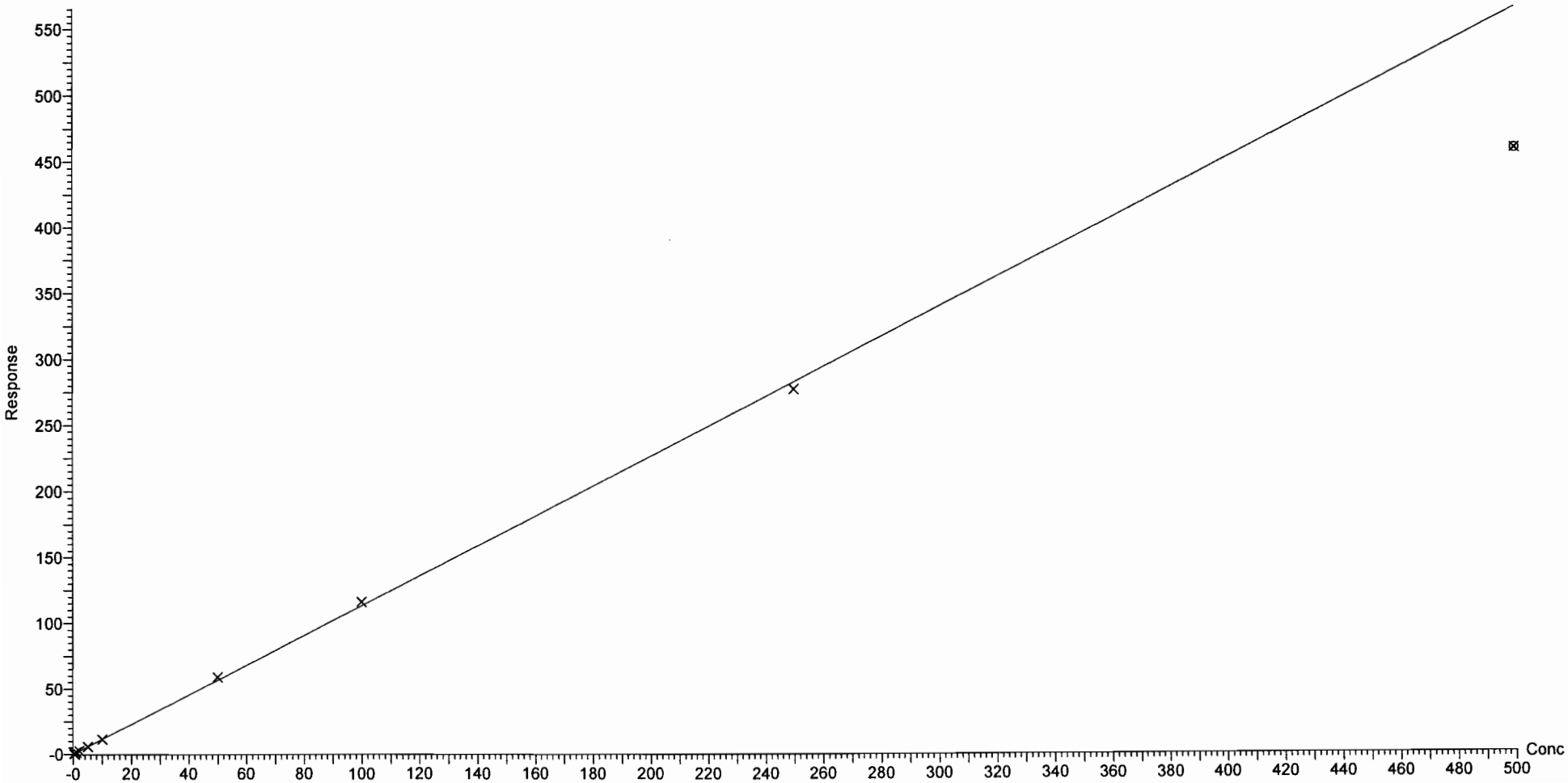
Compound name: PFOS
Coefficient of Determination: R^2 = 0.999791
Calibration curve: -0.000252174 * x^2 + 1.06922 * x + -0.0396957
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

Compound name: PFDA
Correlation coefficient: r = 0.999612, r^2 = 0.999225
Calibration curve: 1.13105 * x + 0.115427
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

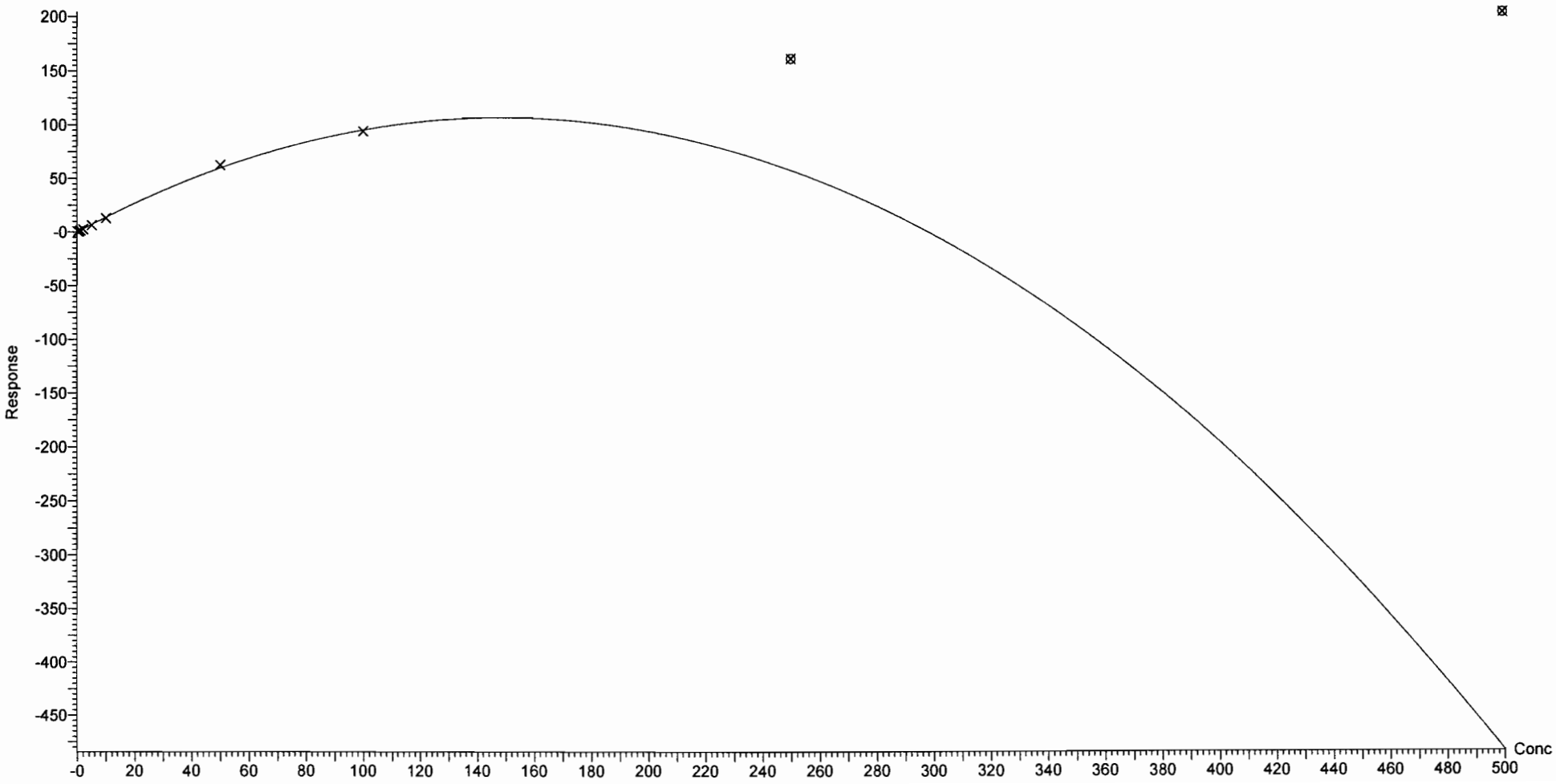


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

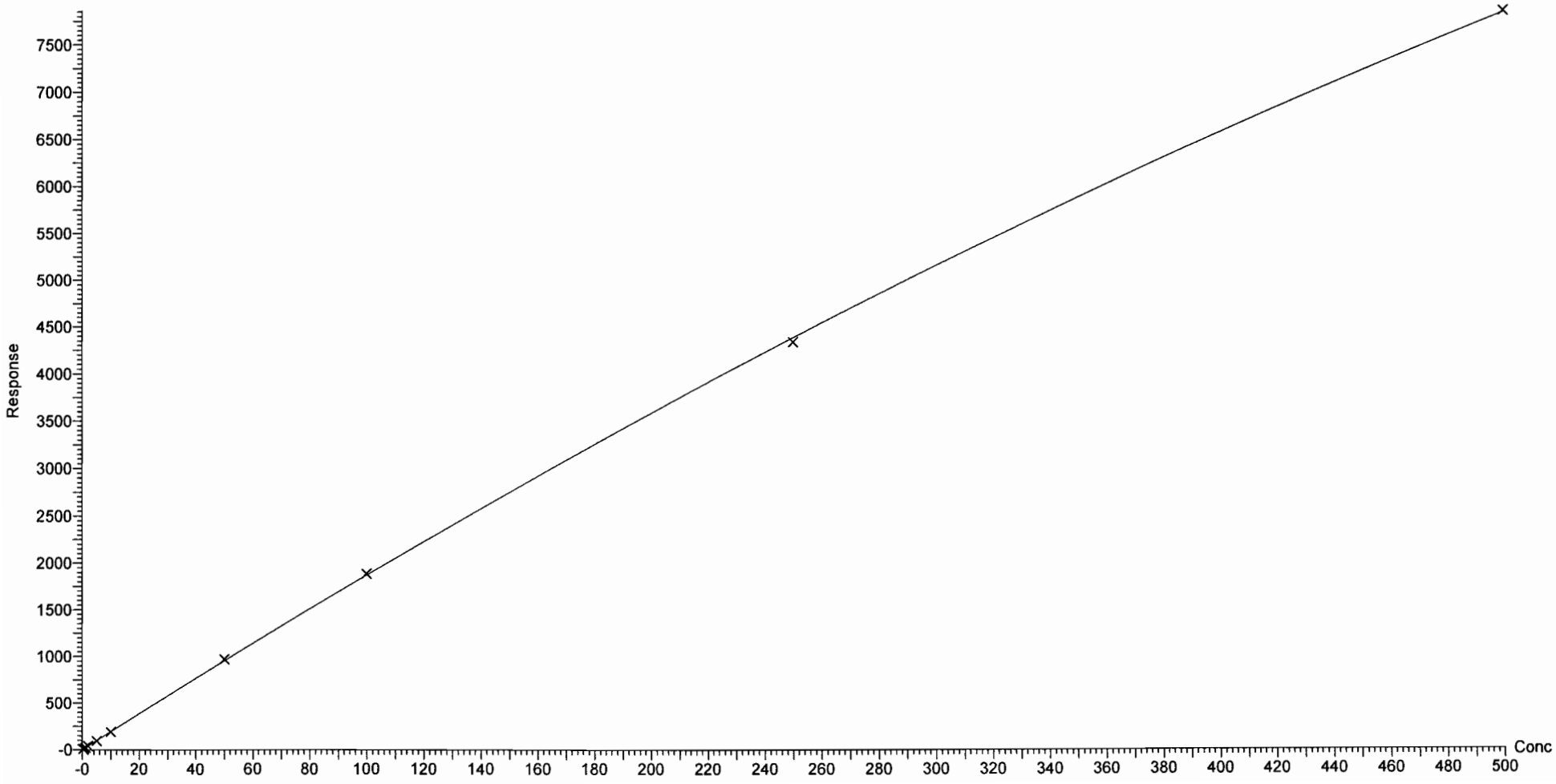
Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.997950
Calibration curve: -0.00480406 * x^2 + 1.4337 * x + -0.0133124
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

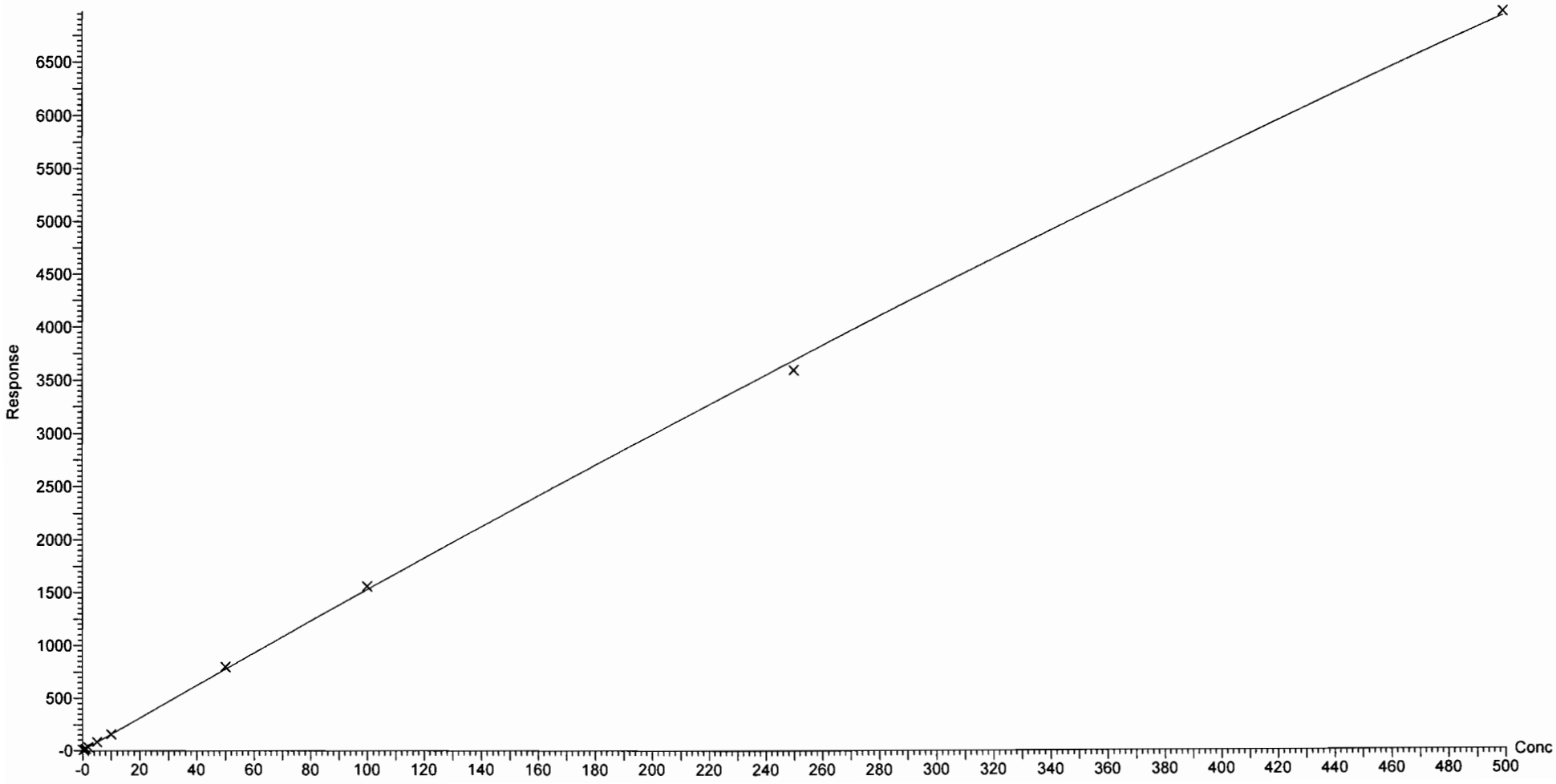
Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.999893
Calibration curve: -0.00750568 * x^2 + 19.4398 * x + -0.45786
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

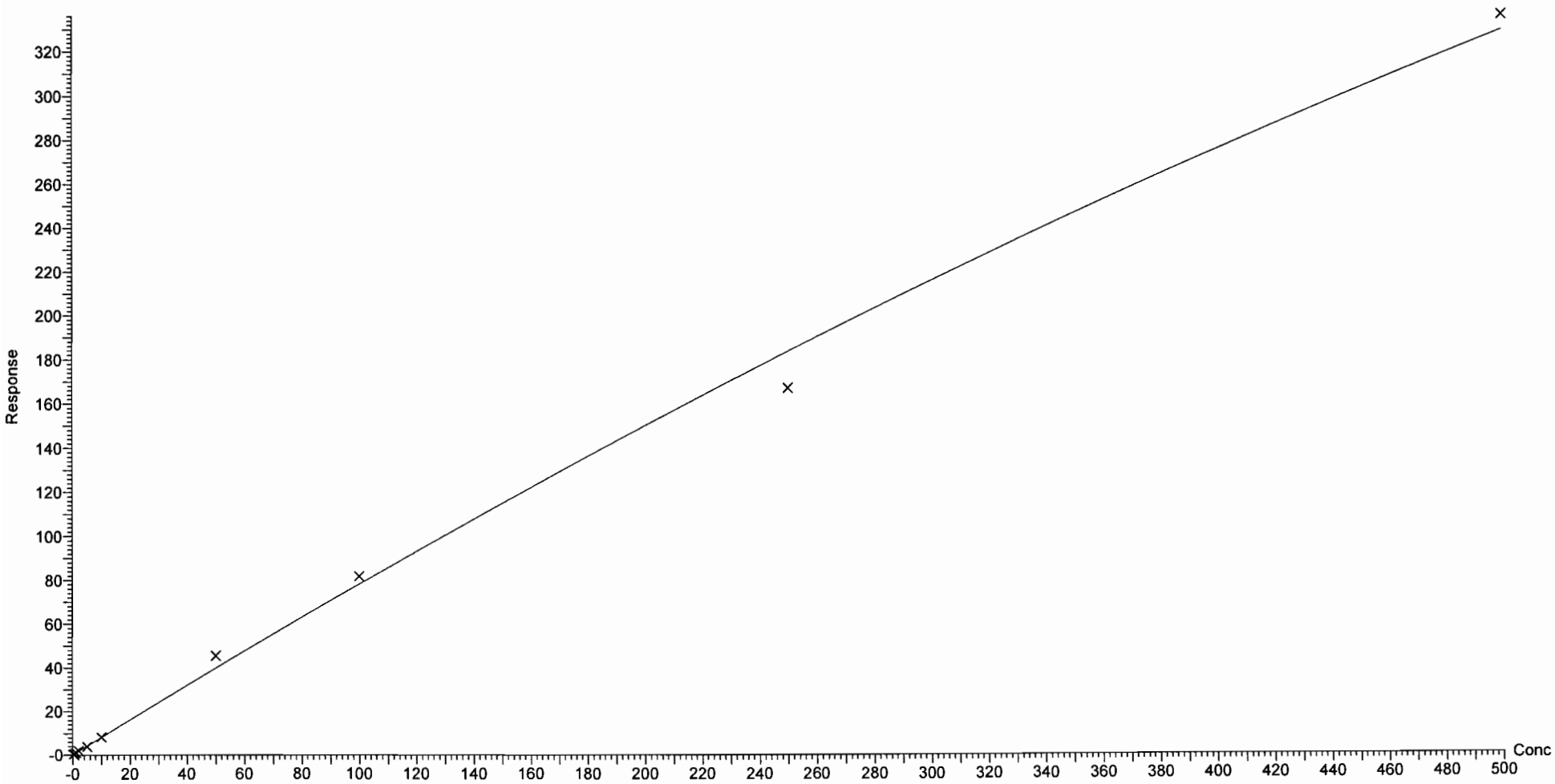
Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.999638
Calibration curve: -0.00353476 * x^2 + 15.6313 * x + 0.651764
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

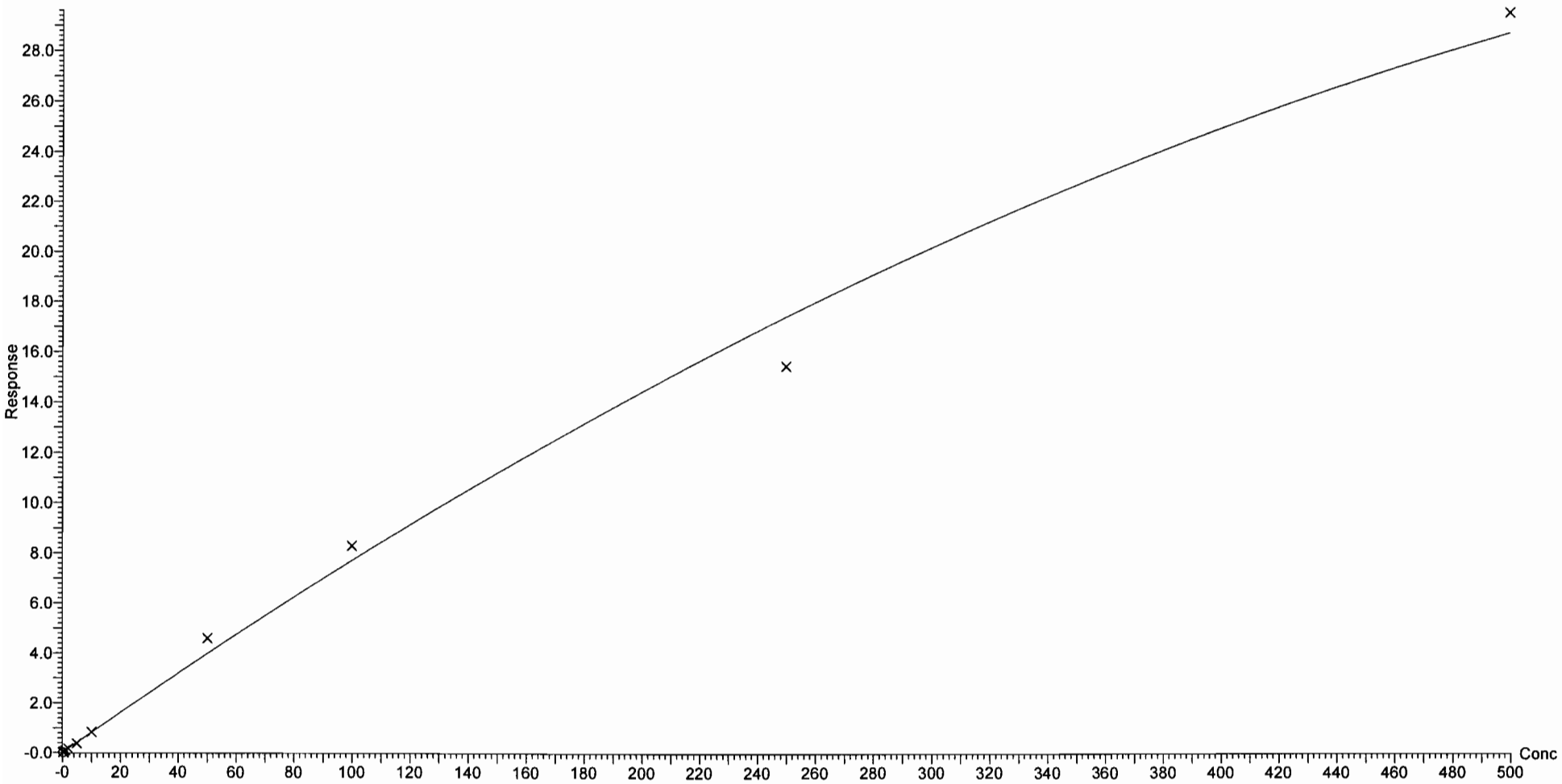
Compound name: PFUnA
Coefficient of Determination: R^2 = 0.995537
Calibration curve: -0.000304422 * x^2 + 0.810482 * x + 0.0887281
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

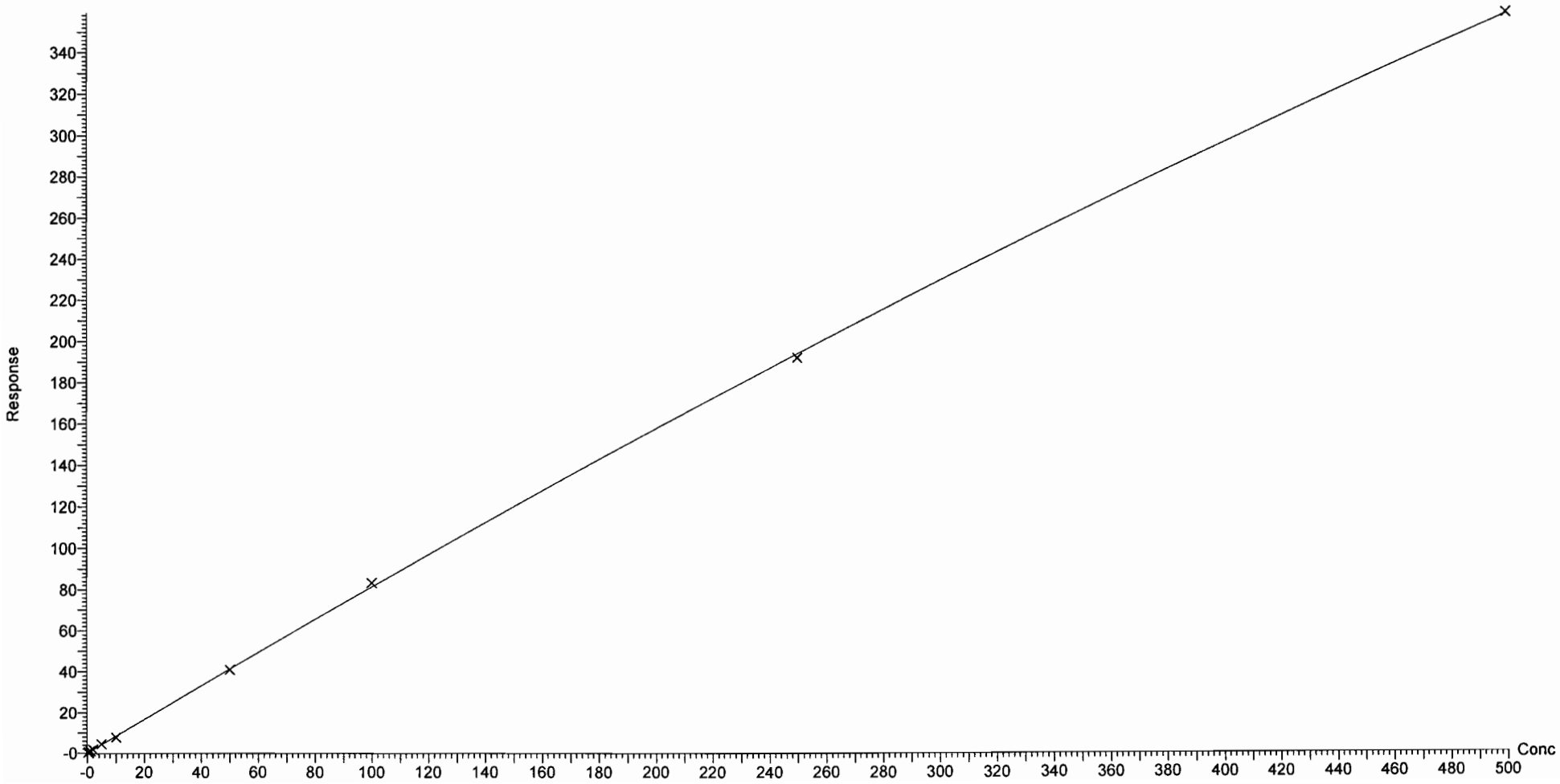
Compound name: PFDS
Coefficient of Determination: R^2 = 0.992589
Calibration curve: -4.87611e-005 * x^2 + 0.0819404 * x + 0.0113831
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

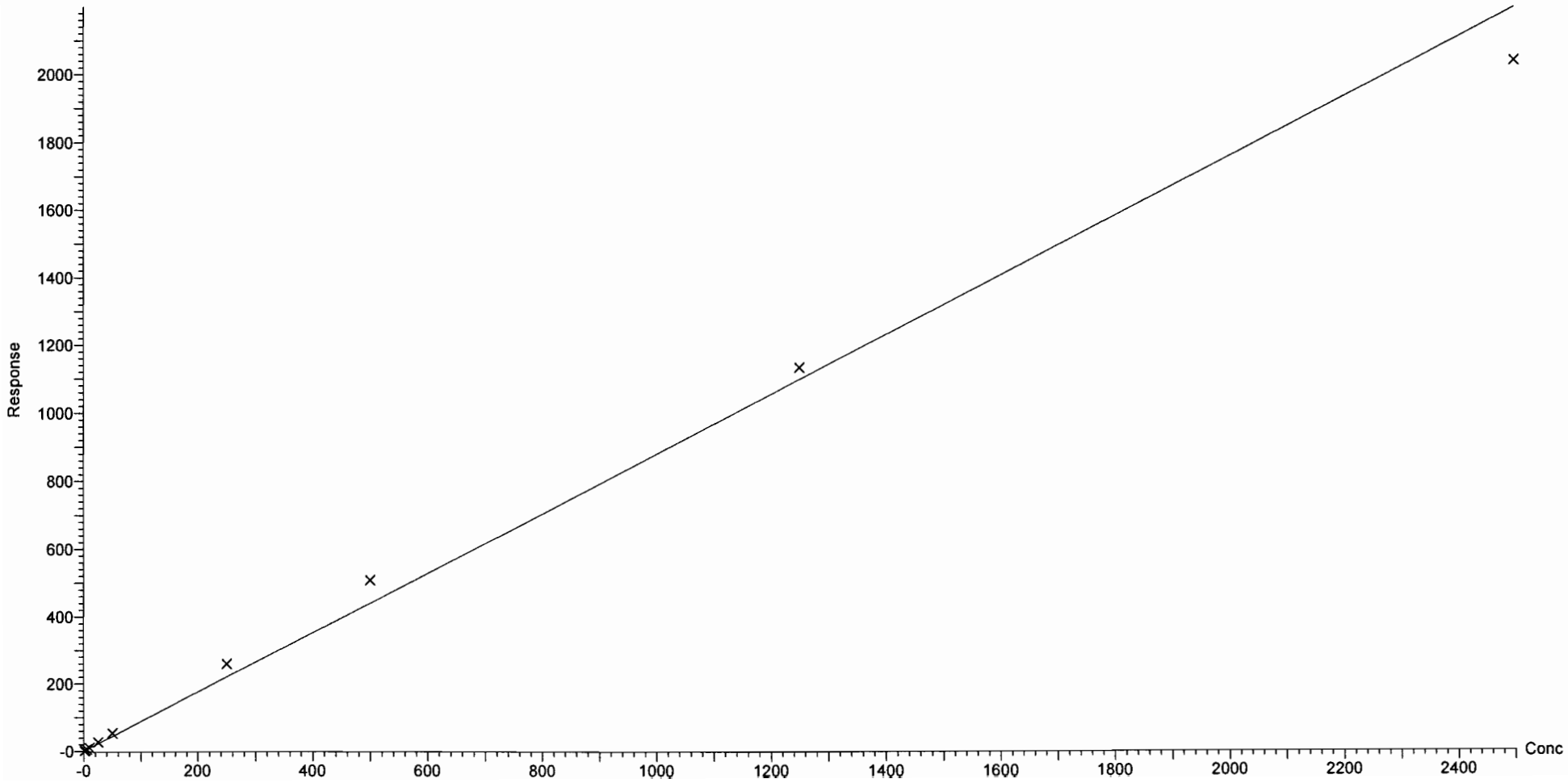
Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999746
Calibration curve: -0.000238279 * x^2 + 0.835861 * x + 0.0431344
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

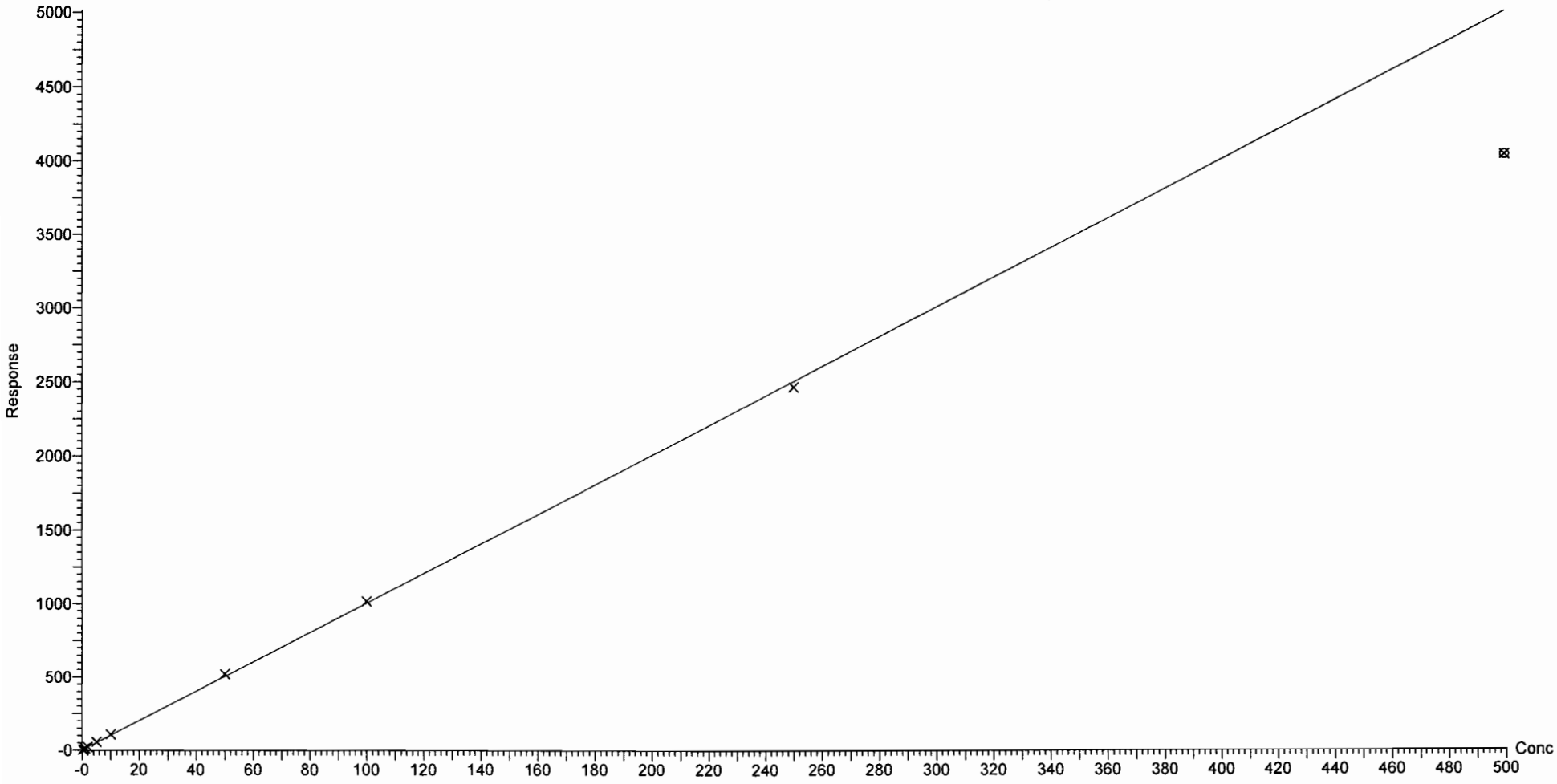
Compound name: N-MeFOSA
Correlation coefficient: r = 0.995786, r^2 = 0.991590
Calibration curve: 0.878916 * x + 0.777845
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

Compound name: PFTrDA
Correlation coefficient: r = 0.999754, r^2 = 0.999507
Calibration curve: 10.0213 * x + 1.2331
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
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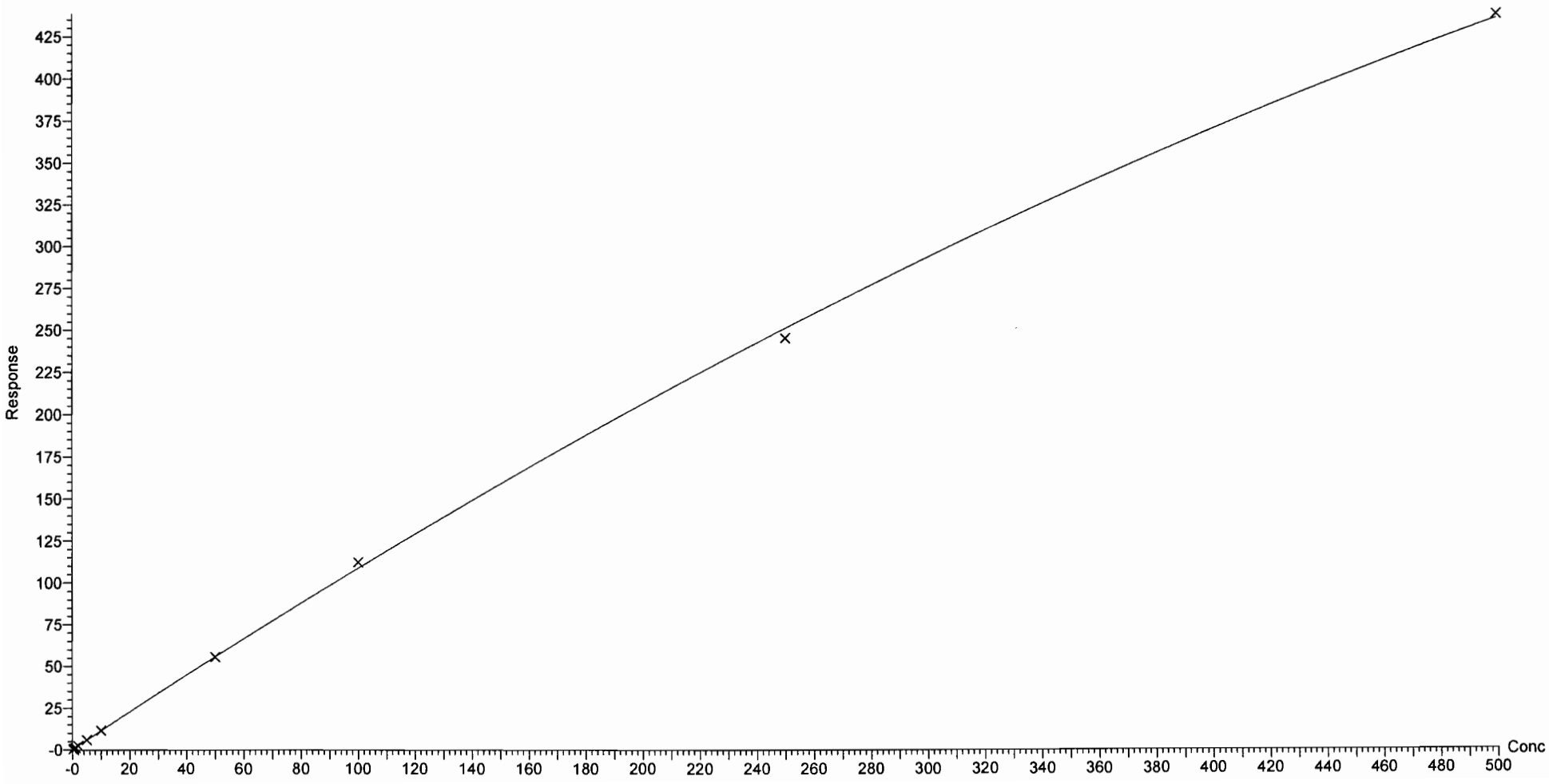
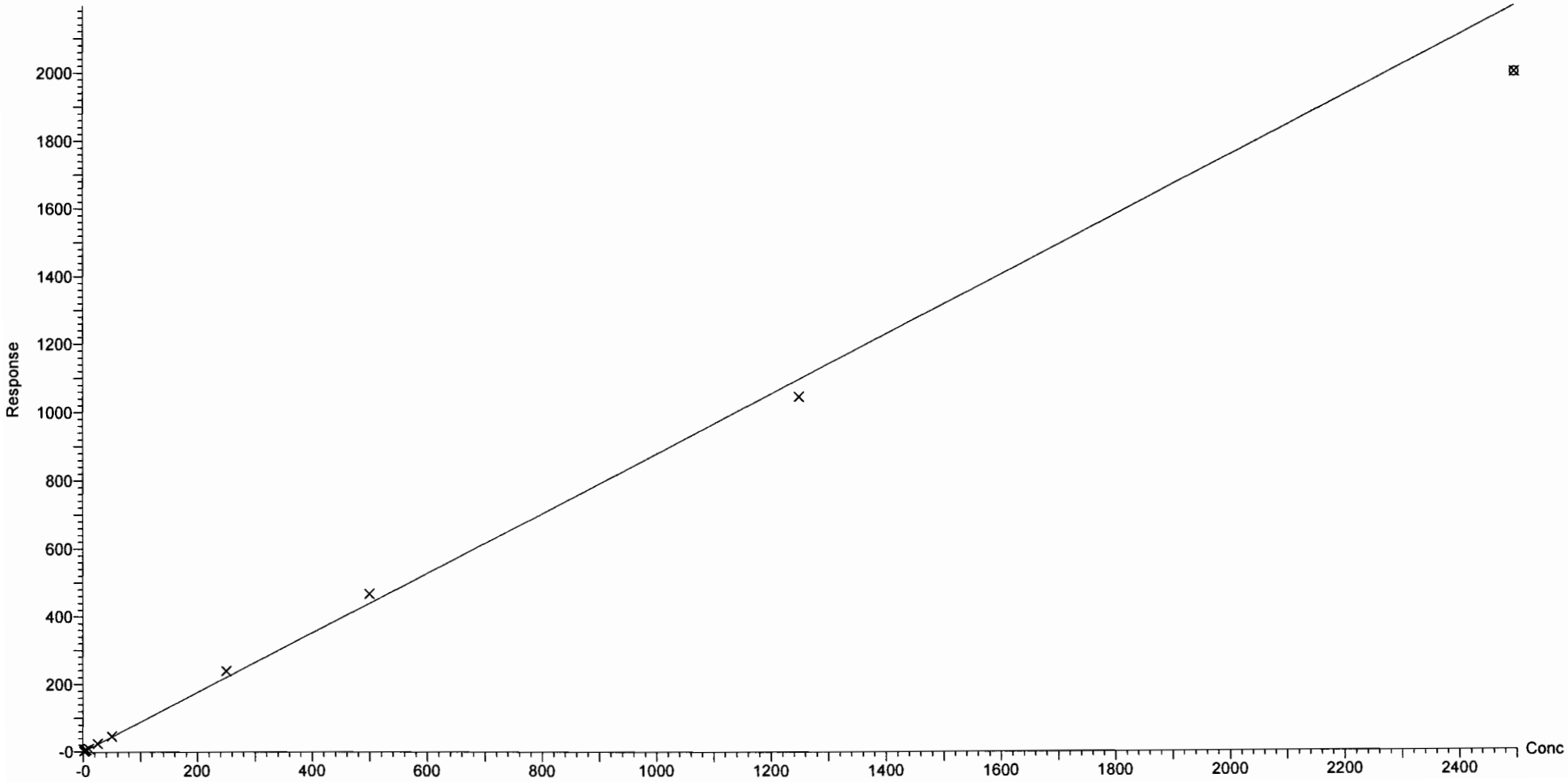
Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999640
Calibration curve: -0.000533447 * x^2 + 1.13867 * x + 0.107998
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

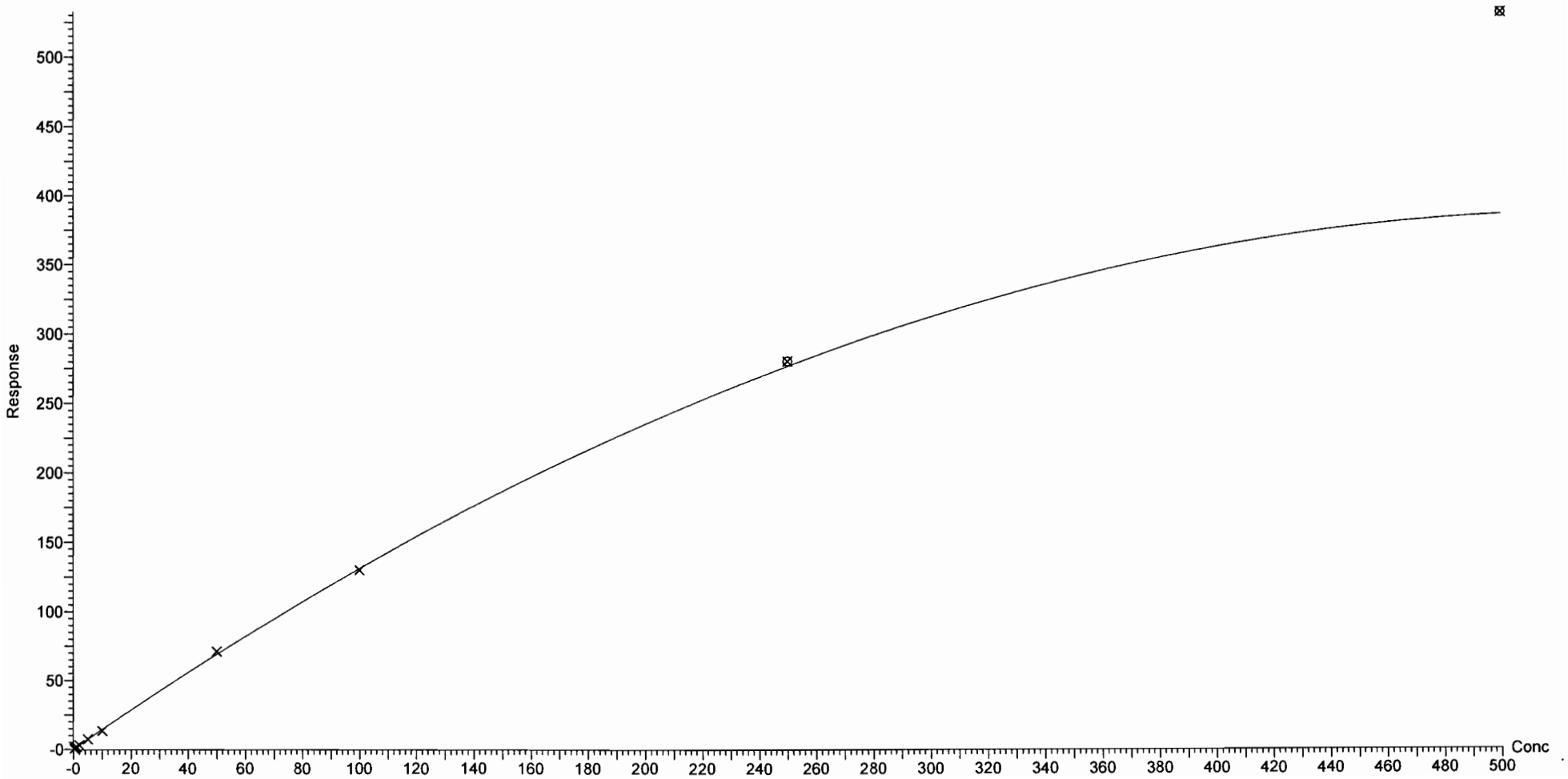
Compound name: N-EtFOSA
Correlation coefficient: r = 0.998278, r^2 = 0.996558
Calibration curve: 0.877827 * x + 0.460454
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

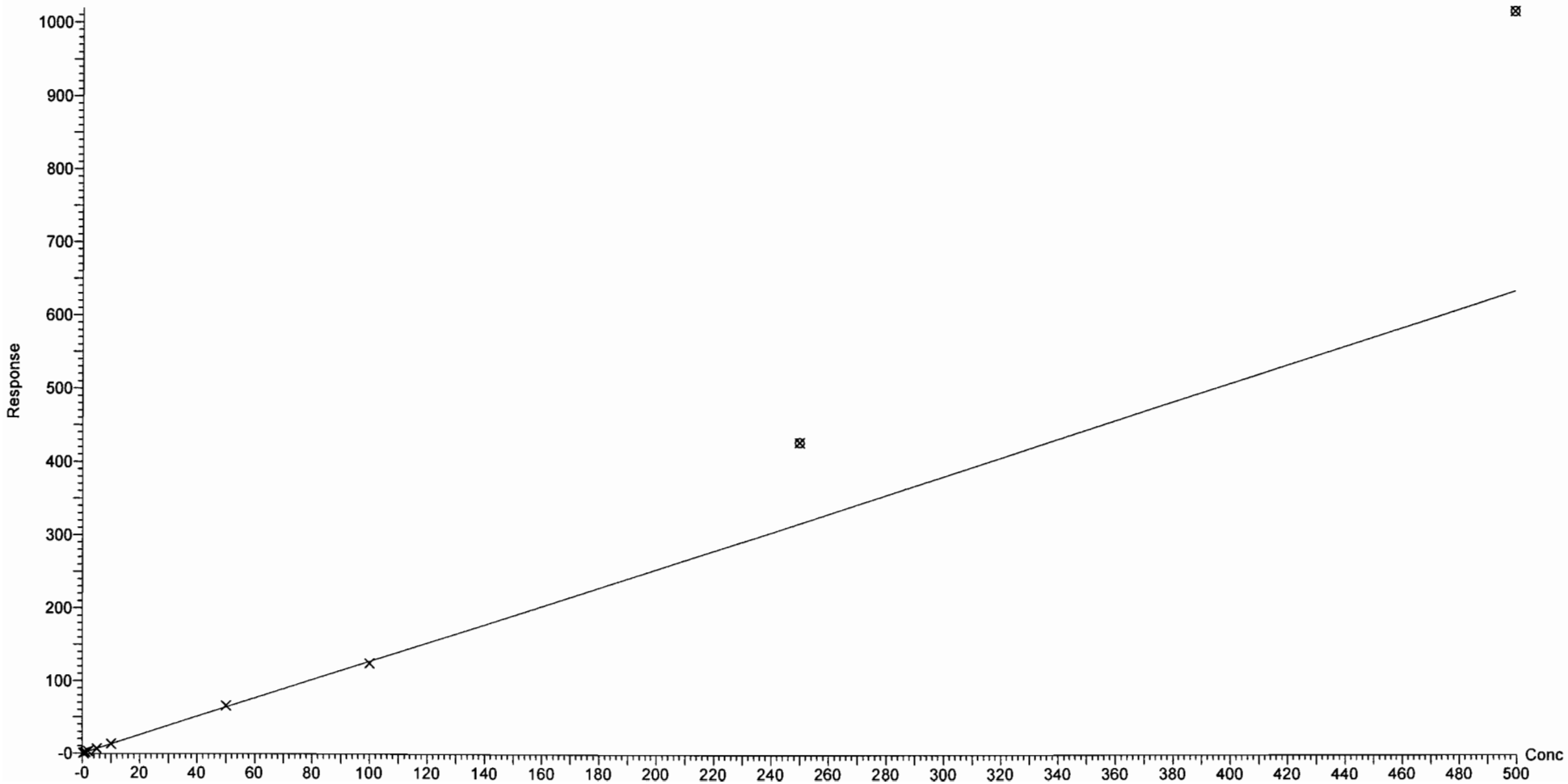
Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999241
Calibration curve: -0.00134262 * x^2 + 1.44391 * x + 0.187386
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

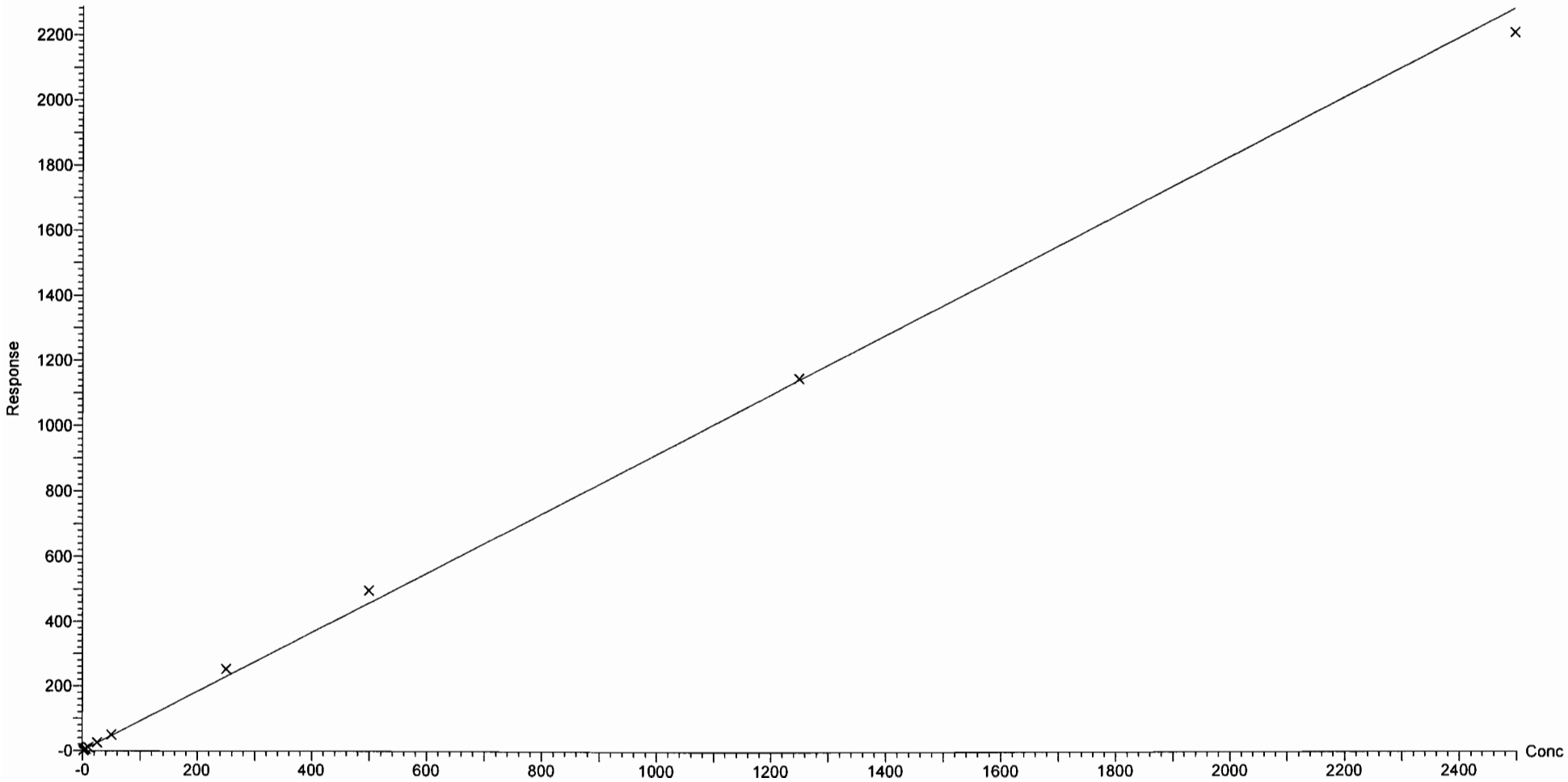
Compound name: PFODA
Correlation coefficient: r = 0.999467, r^2 = 0.998934
Calibration curve: 1.27081 * x + 0.103615
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

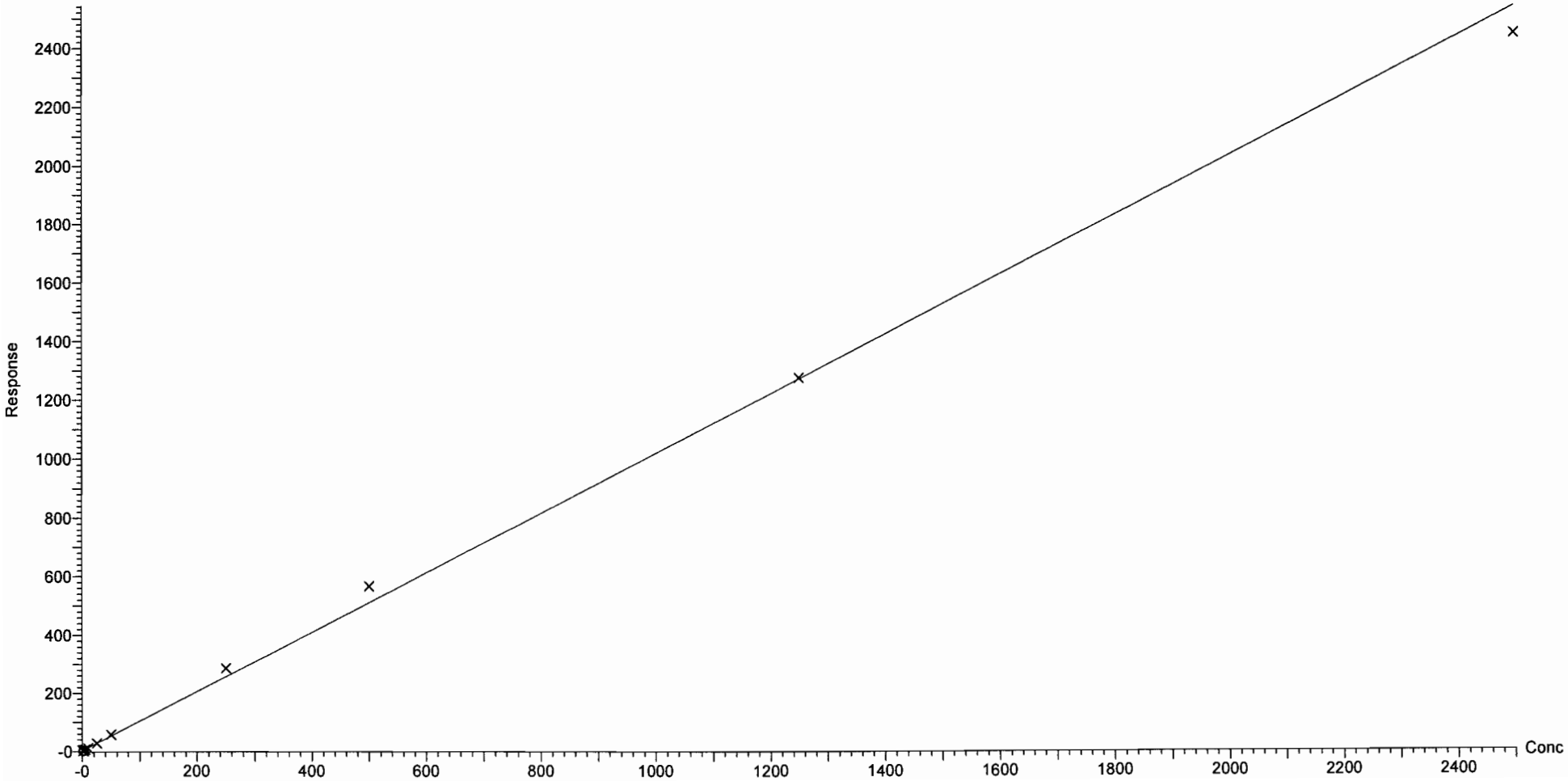
Compound name: N-MeFOSE
Correlation coefficient: r = 0.998979, r^2 = 0.997958
Calibration curve: 0.913987 * x + 0.914175
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:29:36 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:32:45 Pacific Daylight Time

Compound name: N-EtFOSE
Correlation coefficient: r = 0.998468, r^2 = 0.996938
Calibration curve: 1.01573 * x + 2.54785
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

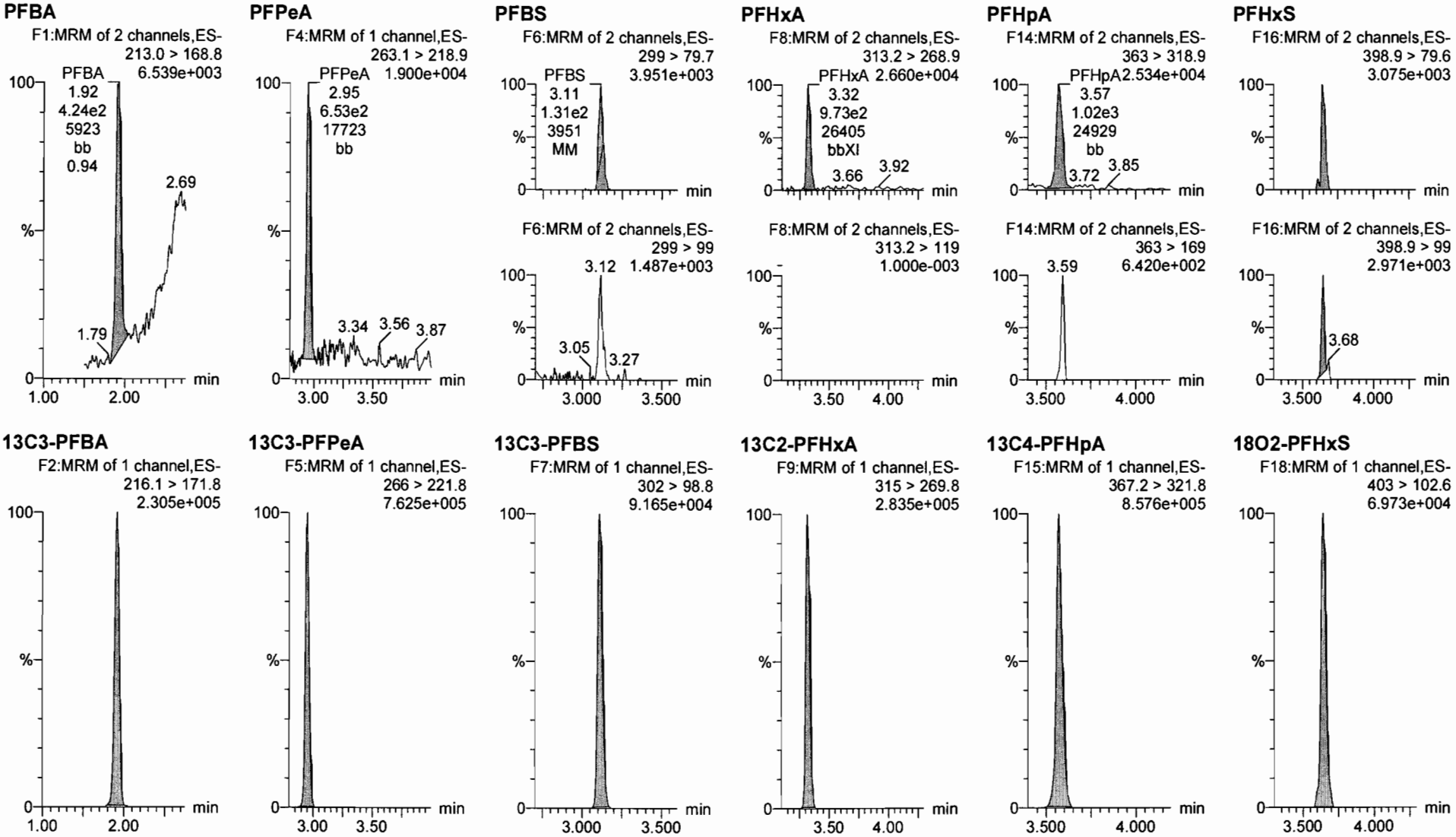


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-10-17.mdb 11 Aug 2017 08:55:25
Calibration: 11 Aug 2017 09:08:45

Name: 170810M2_2, Date: 10-Aug-2017, Time: 20:32:31, ID: ST170810M2-1 PFC CS-2 17H1015, Description: PFC CS-2 17H1015

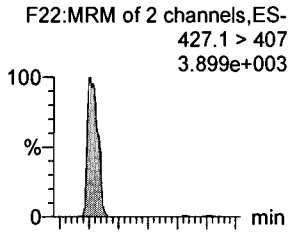


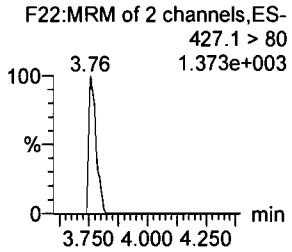
Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

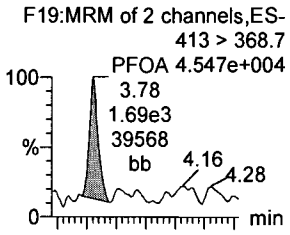
Name: 170810M2_2, Date: 10-Aug-2017, Time: 20:32:31, ID: ST170810M2-1 PFC CS-2 17H1015, Description: PFC CS-2 17H1015

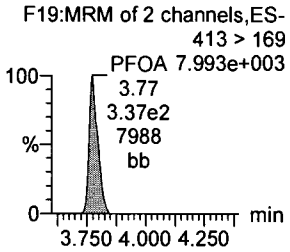
6:2 FTS



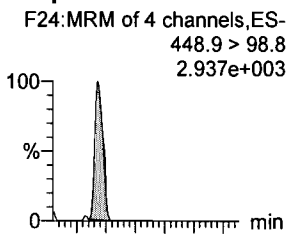


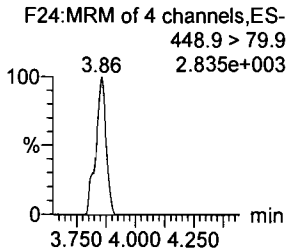
PFOA





PFHpS





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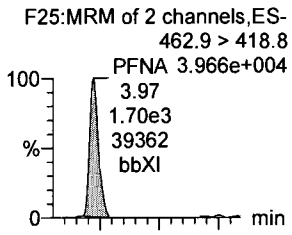
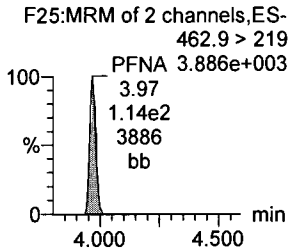
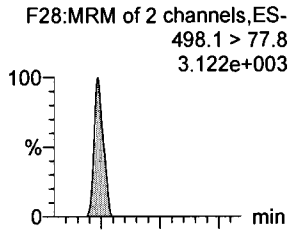
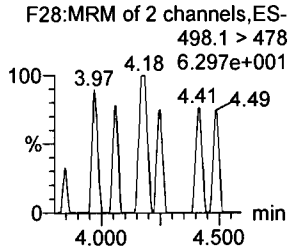


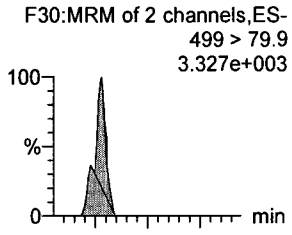


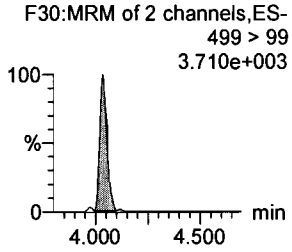
PFOSA



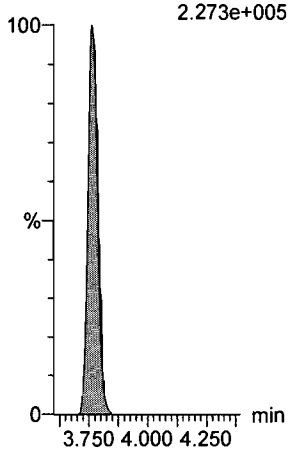


PFOS

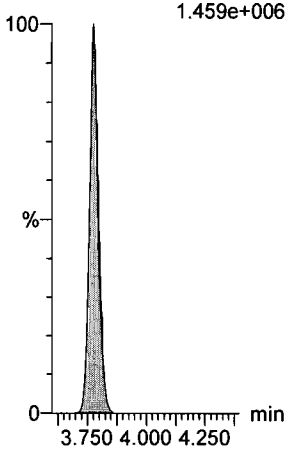




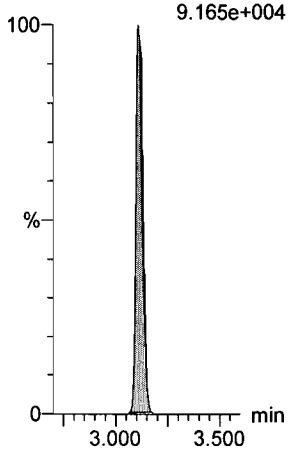
13C2-6:2 FTS



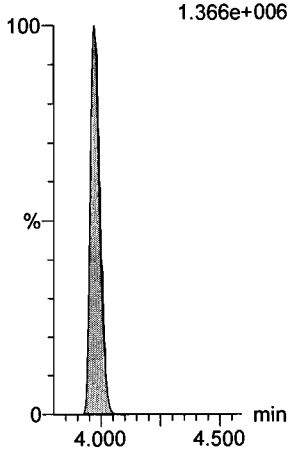
13C2-PFOA



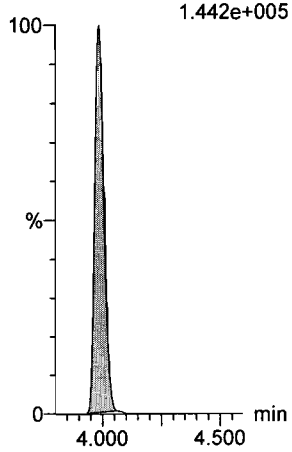
13C3-PFBS



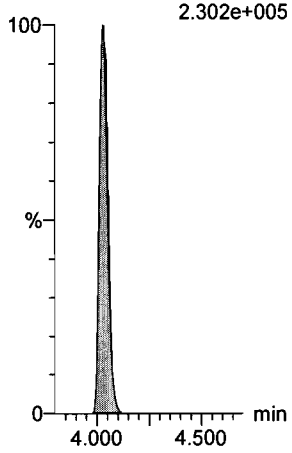
13C5-PFNA



13C8-PFOSA



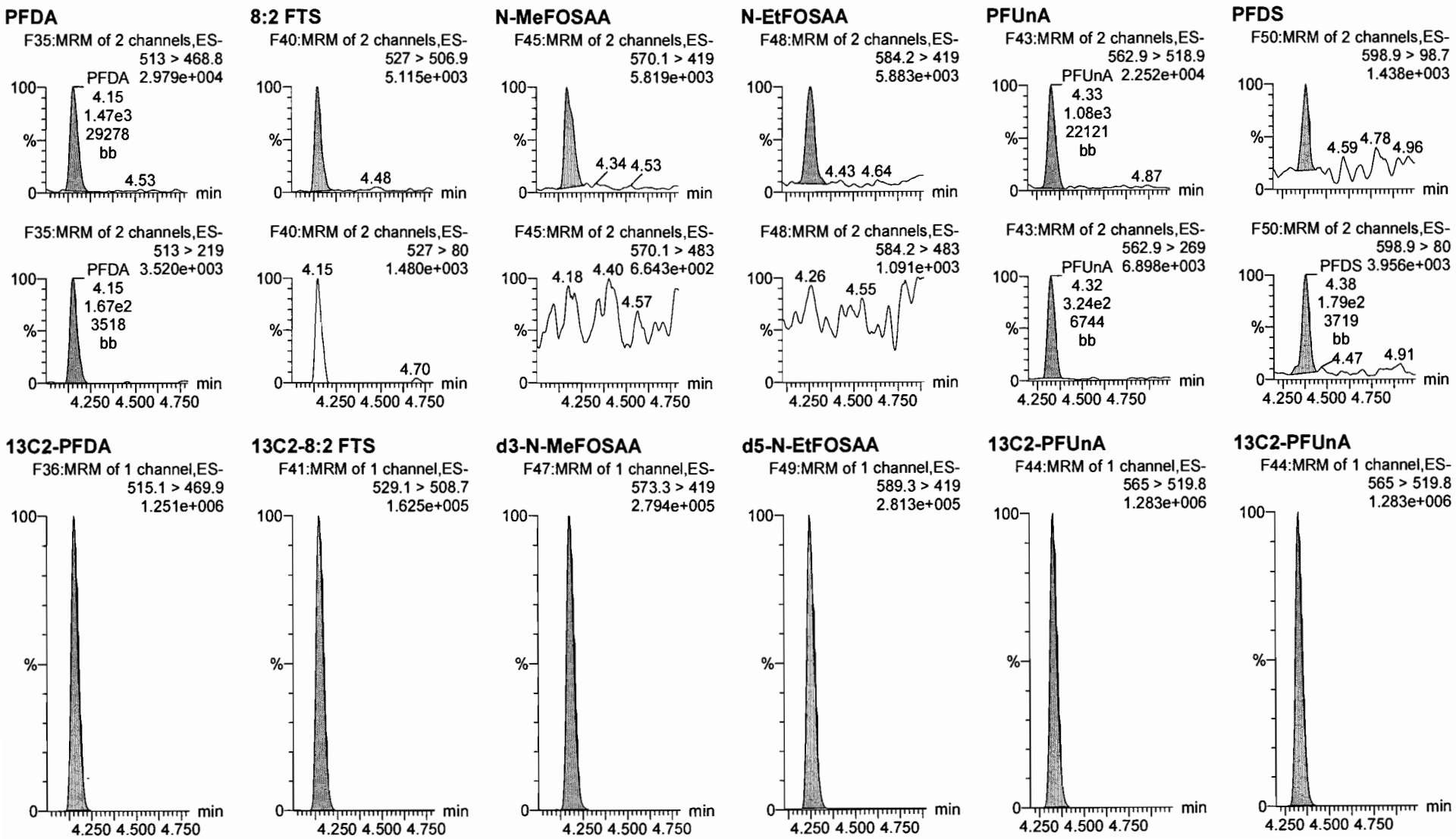
13C8-PFOS



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_2, Date: 10-Aug-2017, Time: 20:32:31, ID: ST170810M2-1 PFC CS-2 17H1015, Description: PFC CS-2 17H1015

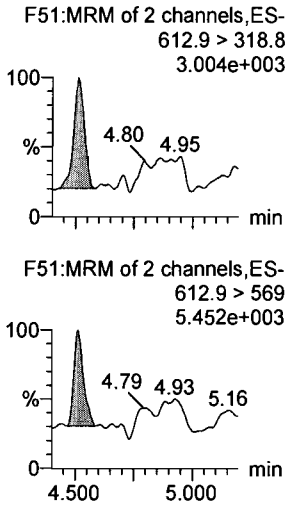


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

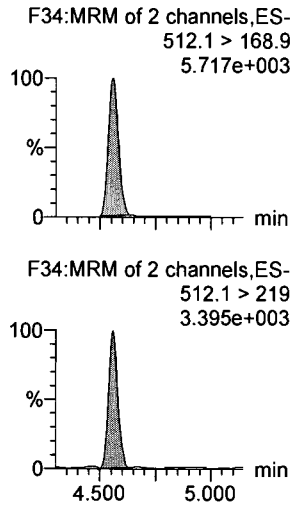
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_2, Date: 10-Aug-2017, Time: 20:32:31, ID: ST170810M2-1 PFC CS-2 17H1015, Description: PFC CS-2 17H1015

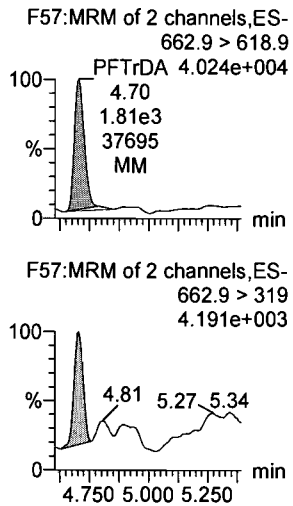
PFDoA



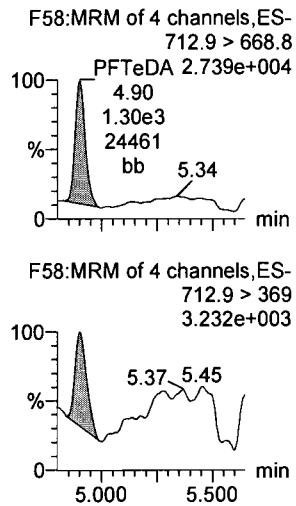
N-MeFOSA



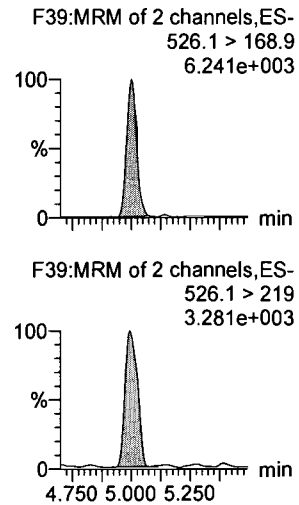
PFTrDA



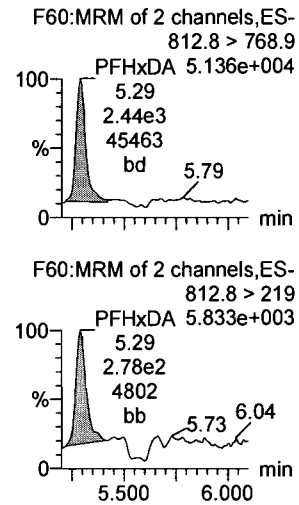
PFTeDA



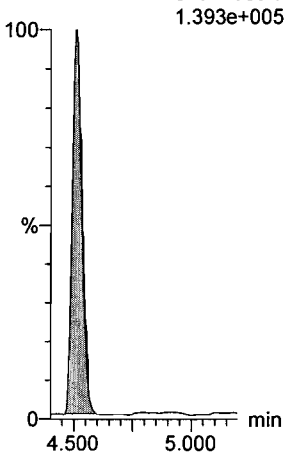
N-EtFOSA



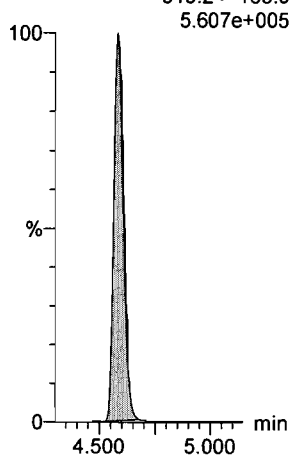
PFHxDA



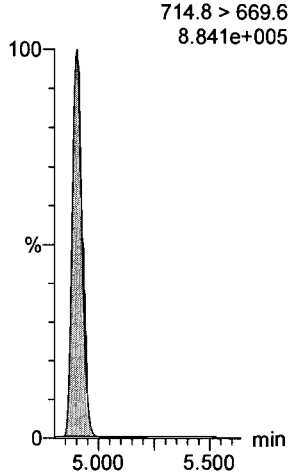
13C2-PFDoA



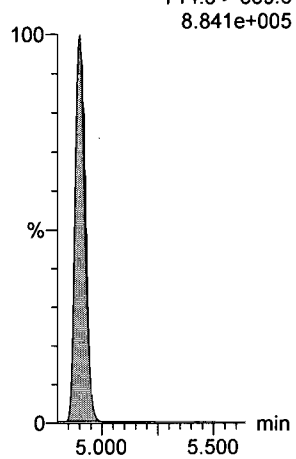
d3-N-MeFOSA



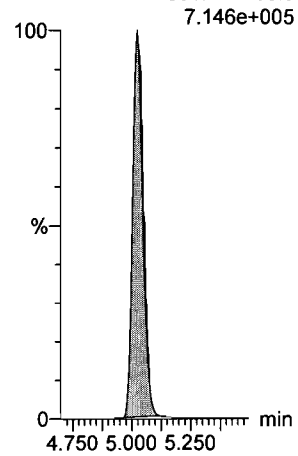
13C2-PFTeDA



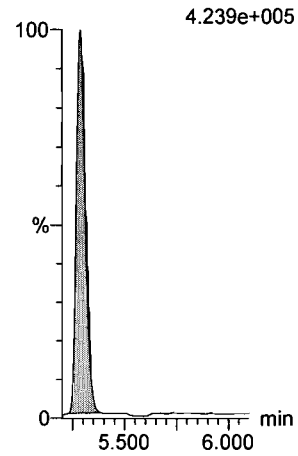
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

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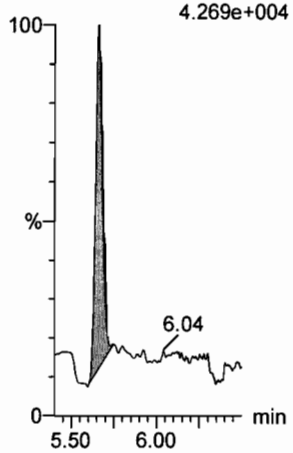
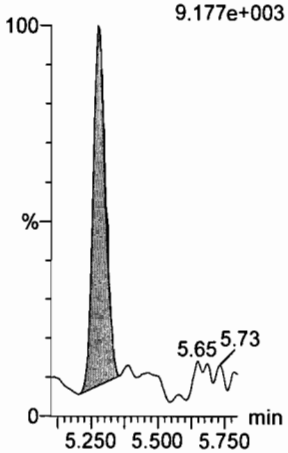
Name: 170810M2_2, Date: 10-Aug-2017, Time: 20:32:31, ID: ST170810M2-1 PFC CS-2 17H1015, Description: PFC CS-2 17H1015

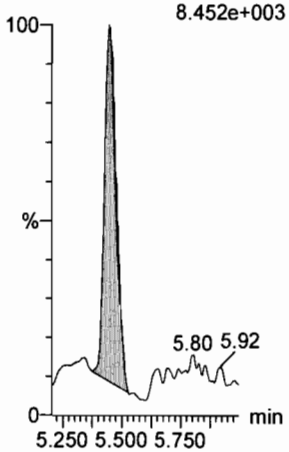
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
4.269e+004



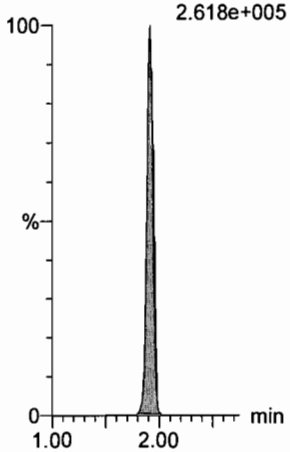
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
9.177e+003



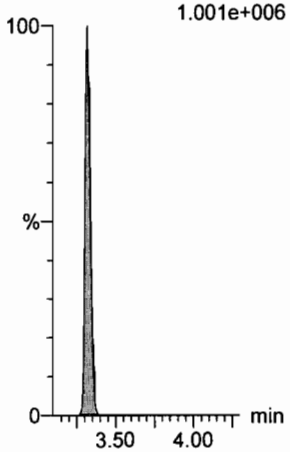
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
8.452e+003



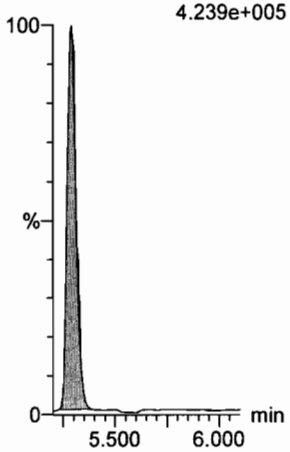
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.618e+005



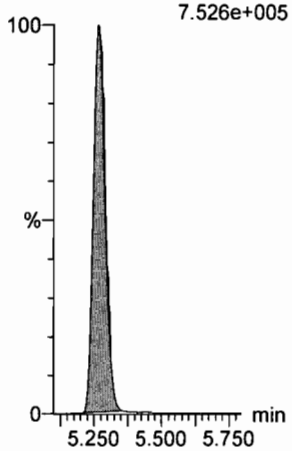
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.001e+006



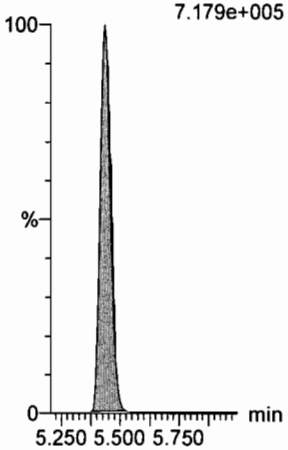
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.239e+005



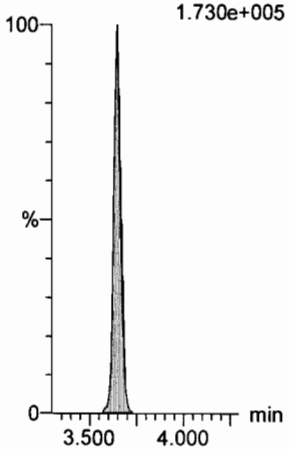
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
7.526e+005



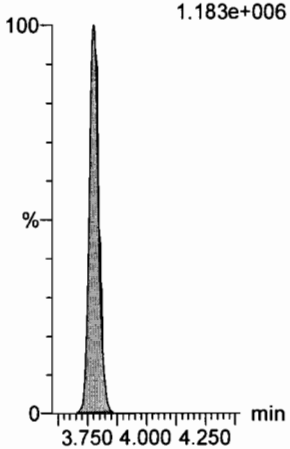
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
7.179e+005



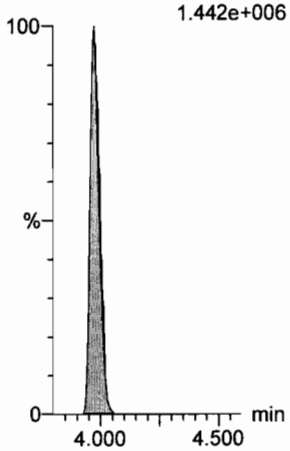
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.730e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.183e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.442e+006



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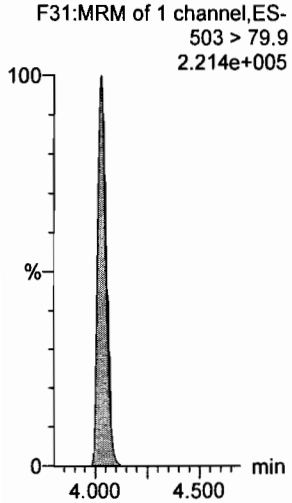
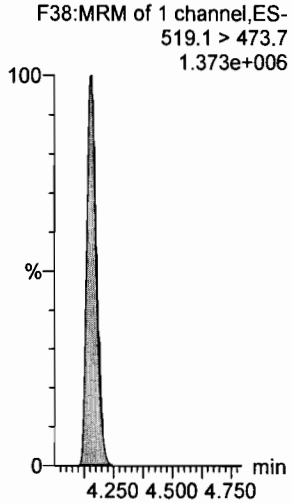
Name: 170810M2_2, Date: 10-Aug-2017, Time: 20:32:31, ID: ST170810M2-1 PFC CS-2 17H1015, Description: PFC CS-2 17H1015

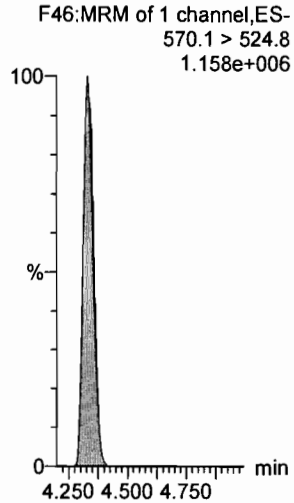
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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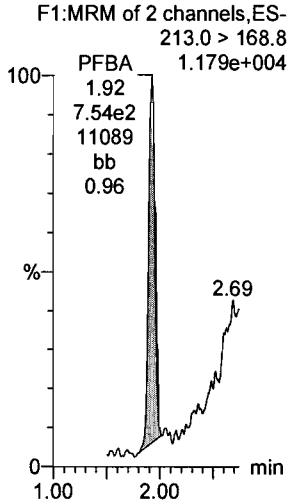
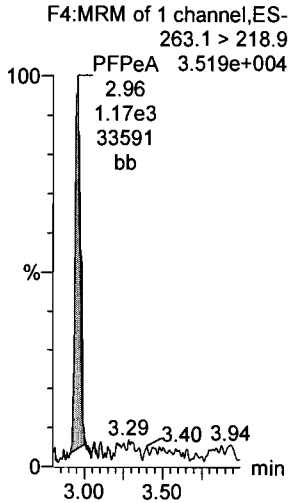
Name: 170810M2_3, Date: 10-Aug-2017, Time: 20:43:21, ID: ST170810M2-2 PFC CS-1 17H1003, Description: PFC CS-1 17H1003

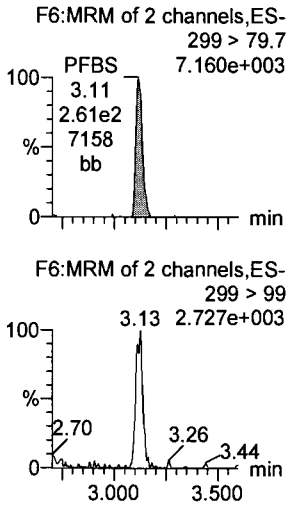
PFBA



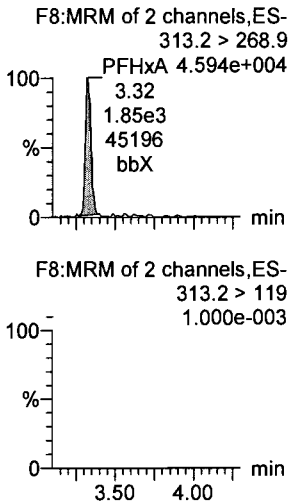
PFPeA



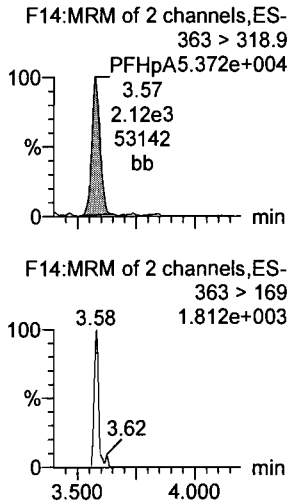
PFBS



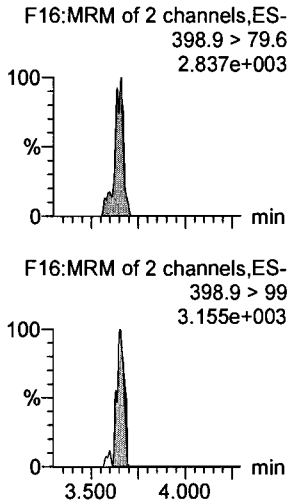
PFHxA



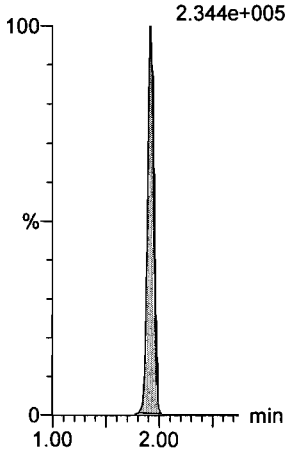
PFHpA



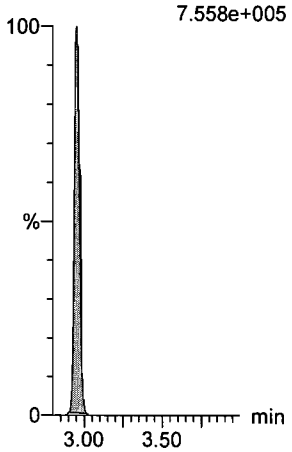
PFHxS



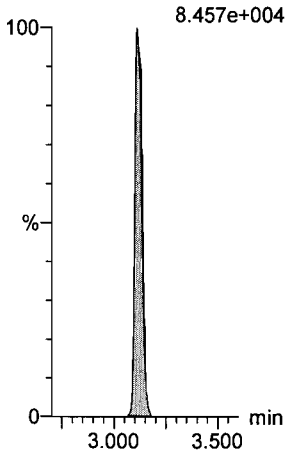
13C3-PFBA



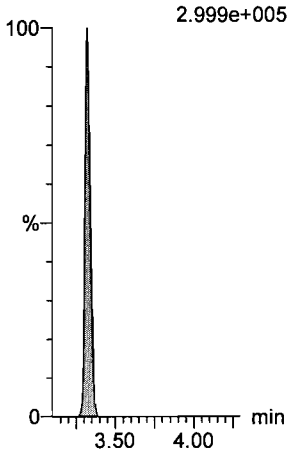
13C3-PFPeA



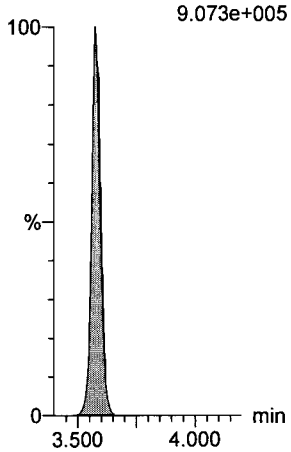
13C3-PFBS



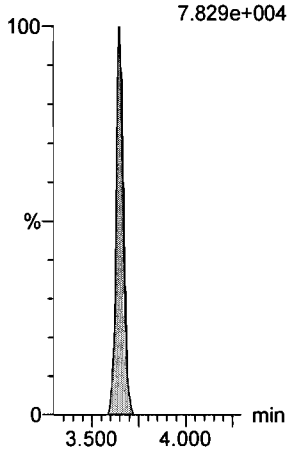
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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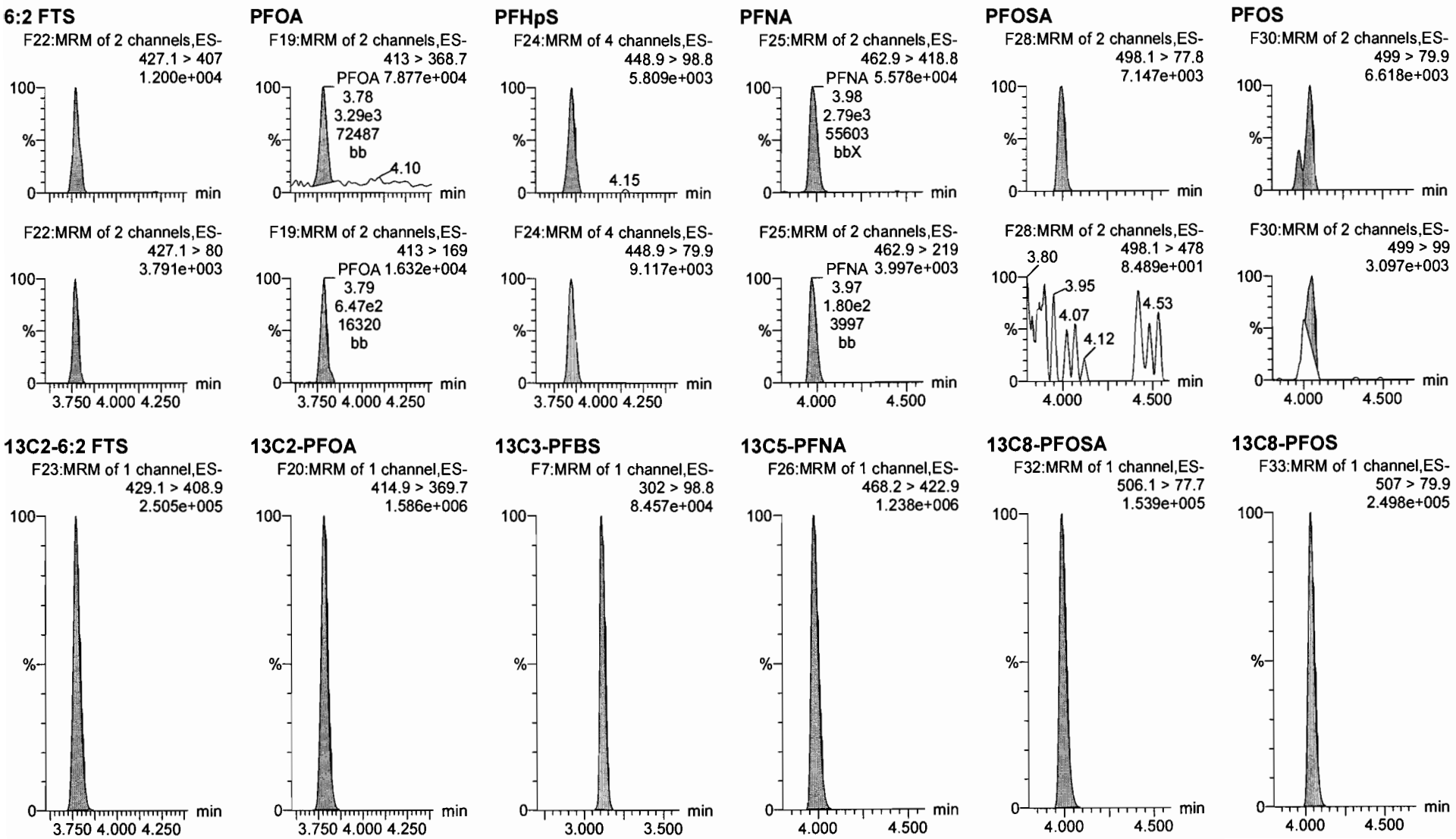
Name: 170810M2_3, Date: 10-Aug-2017, Time: 20:43:21, ID: ST170810M2-2 PFC CS-1 17H1003, Description: PFC CS-1 17H1003



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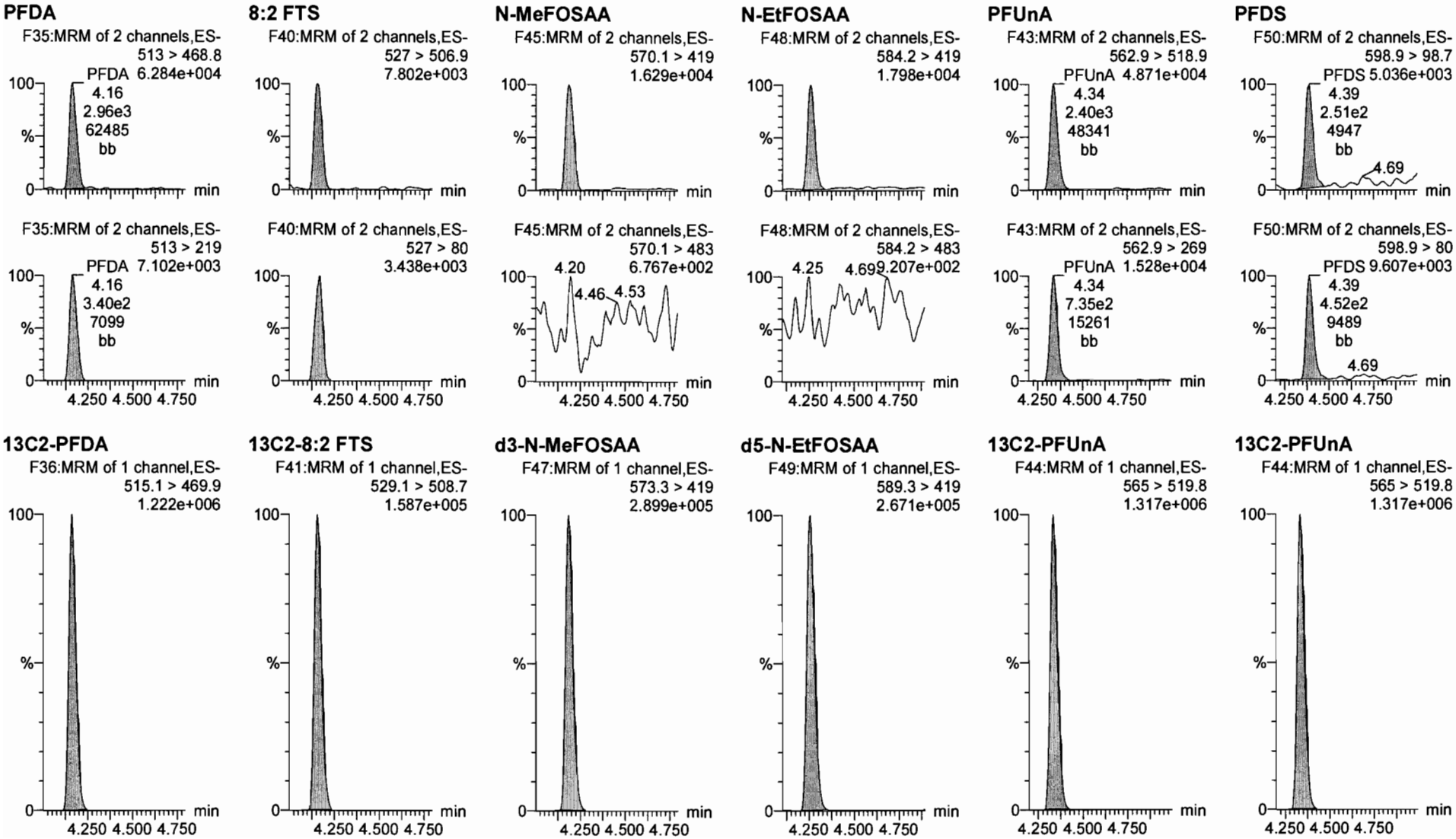
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_3, Date: 10-Aug-2017, Time: 20:43:21, ID: ST170810M2-2 PFC CS-1 17H1003, Description: PFC CS-1 17H1003



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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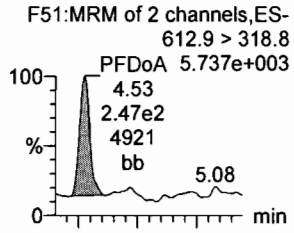
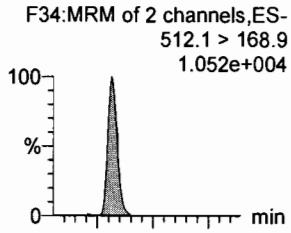
Name: 170810M2_3, Date: 10-Aug-2017, Time: 20:43:21, ID: ST170810M2-2 PFC CS-1 17H1003, Description: PFC CS-1 17H1003

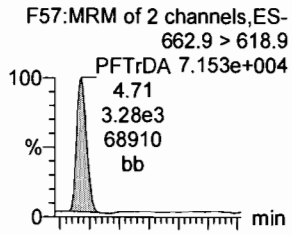
PFDoA



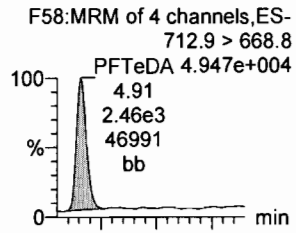
N-MeFOSA



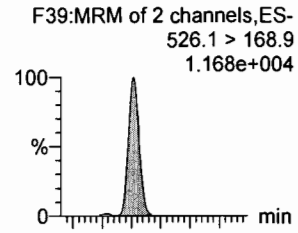
PFTrDA



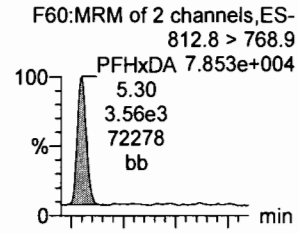
PFTeDA

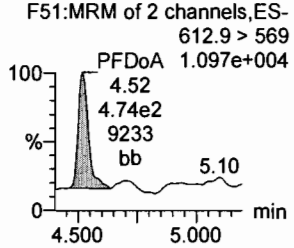


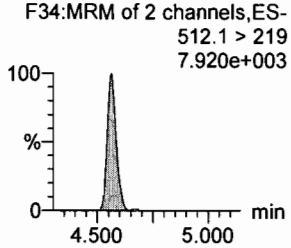
N-EtFOSA

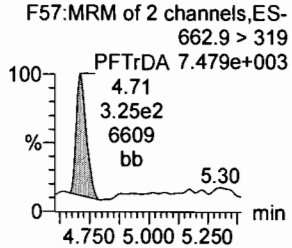


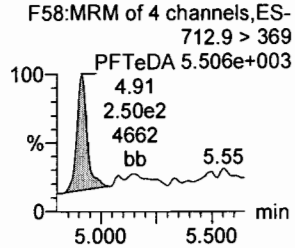
PFHxDA

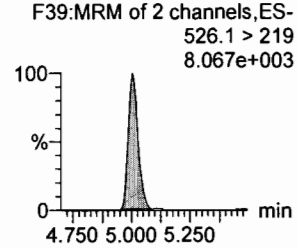


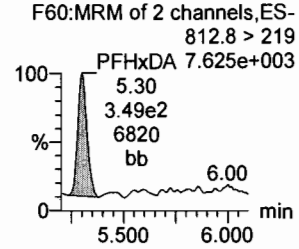




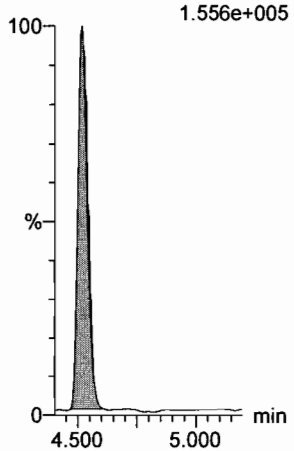




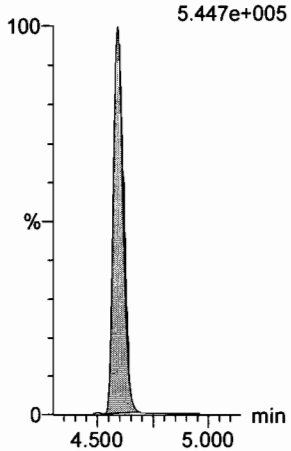




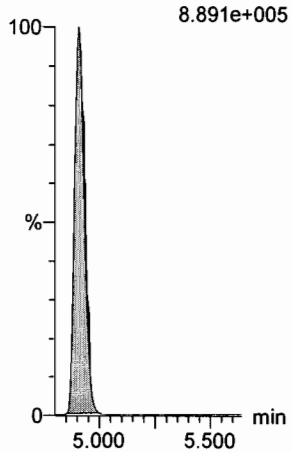
13C2-PFDoA



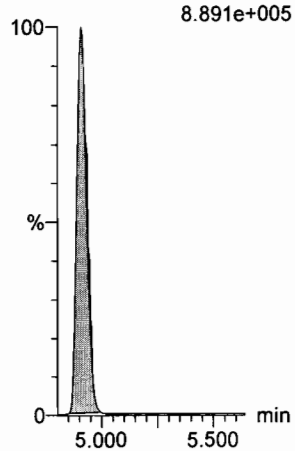
d3-N-MeFOSA



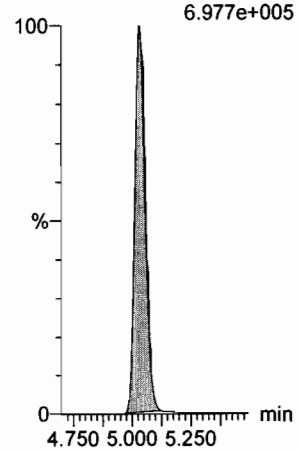
13C2-PFTeDA



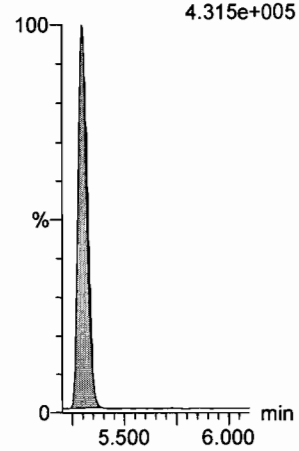
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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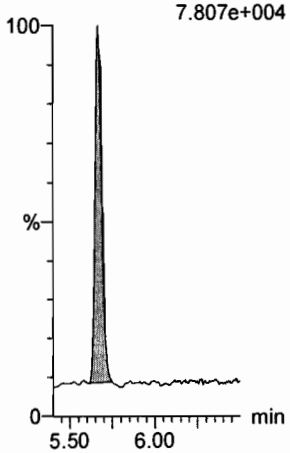
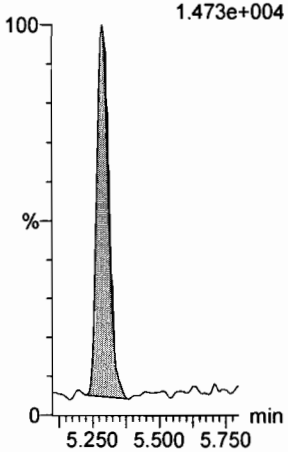
Name: 170810M2_3, Date: 10-Aug-2017, Time: 20:43:21, ID: ST170810M2-2 PFC CS-1 17H1003, Description: PFC CS-1 17H1003

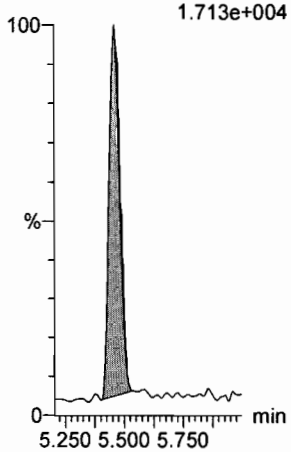
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
7.807e+004



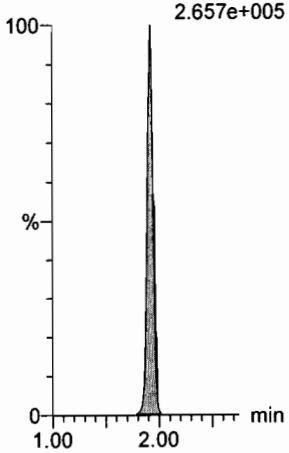
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
1.473e+004



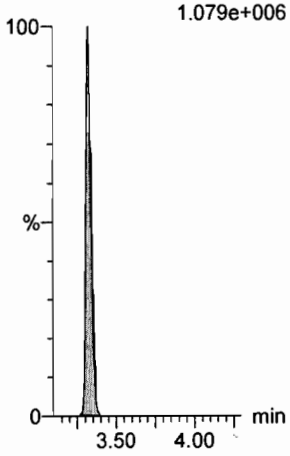
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
1.713e+004



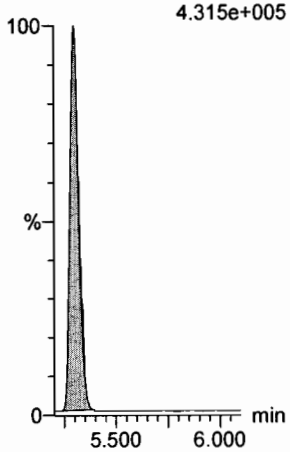
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.657e+005



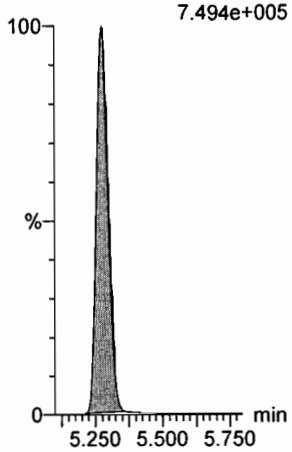
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.079e+006



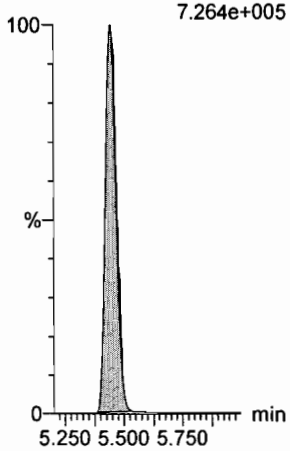
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.315e+005



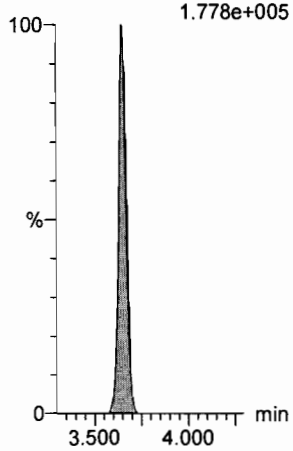
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
7.494e+005



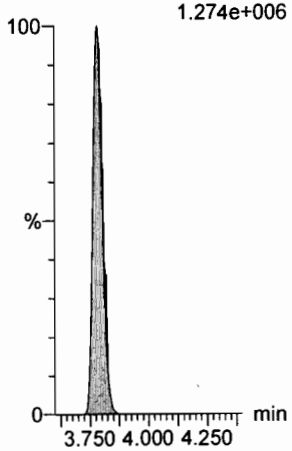
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
7.264e+005



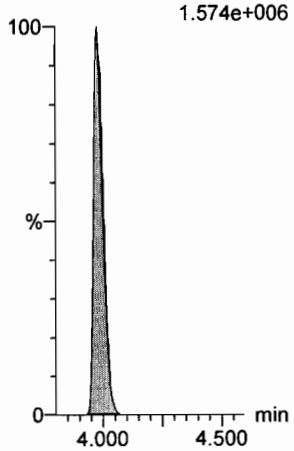
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.778e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.274e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.574e+006



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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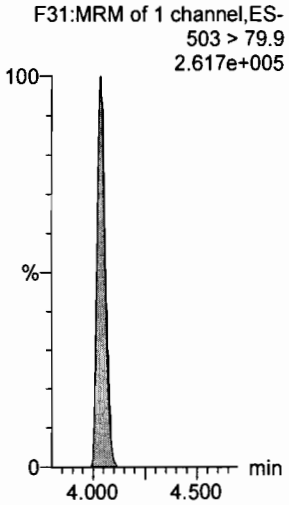
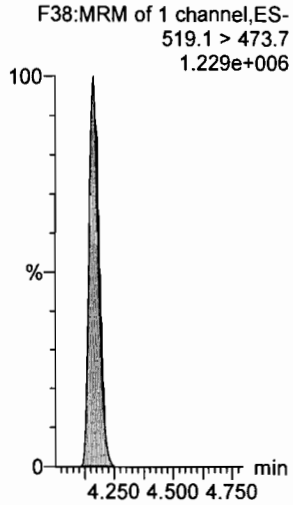
Name: 170810M2_3, Date: 10-Aug-2017, Time: 20:43:21, ID: ST170810M2-2 PFC CS-1 17H1003, Description: PFC CS-1 17H1003

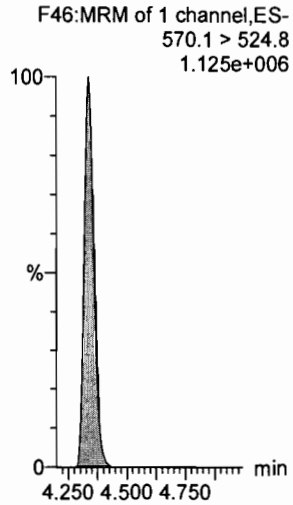
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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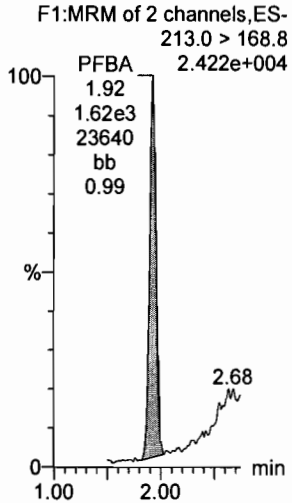
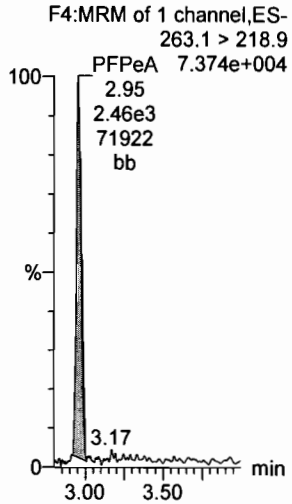
Name: 170810M2_4, Date: 10-Aug-2017, Time: 20:54:09, ID: ST170810M2-3 PFC CS0 17H1004, Description: PFC CS0 17H1004

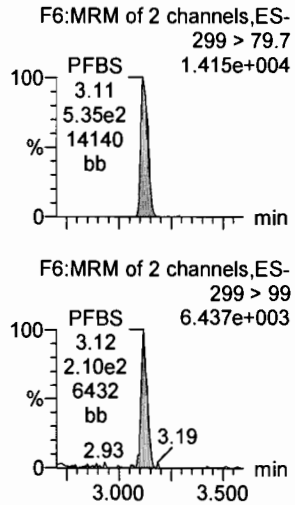
PFBA



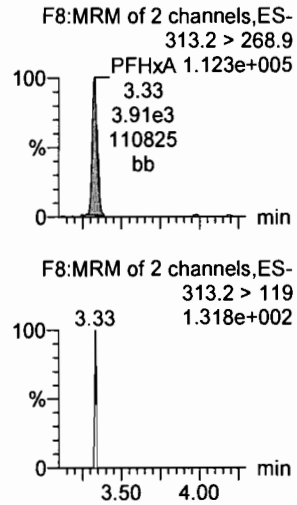
PFPeA



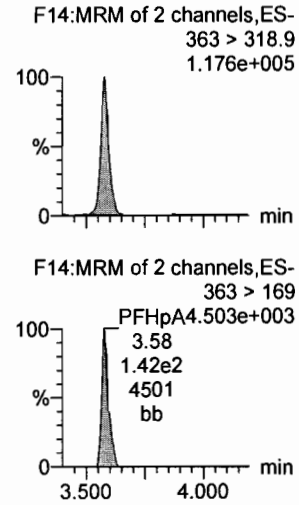
PFBS



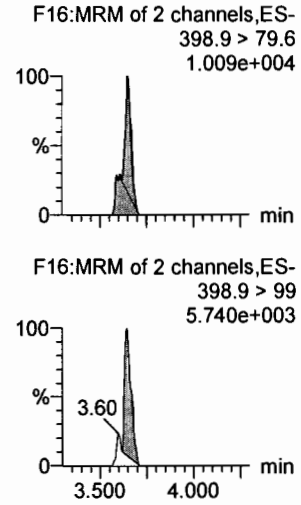
PFHxA



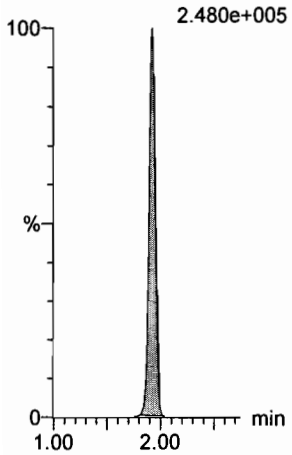
PFHpA



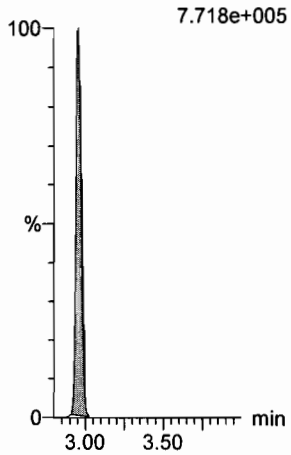
PFHxS



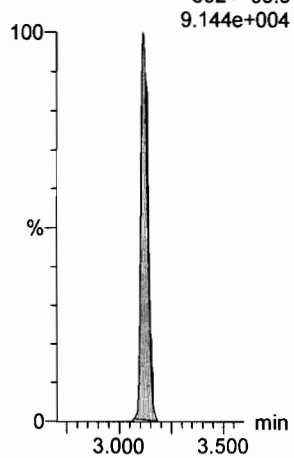
13C3-PFBA



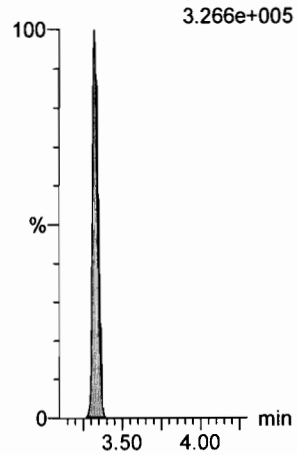
13C3-PFPeA



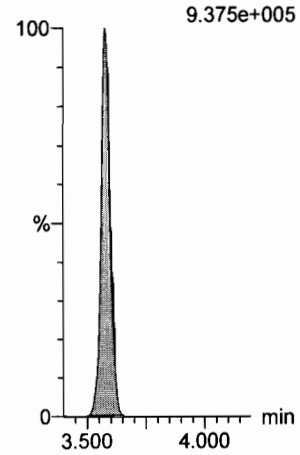
13C3-PFBS



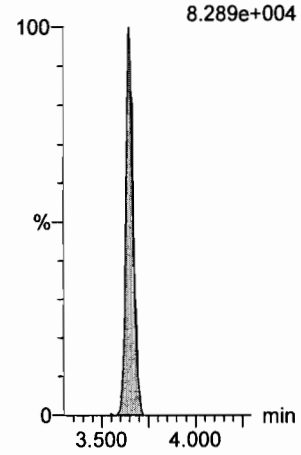
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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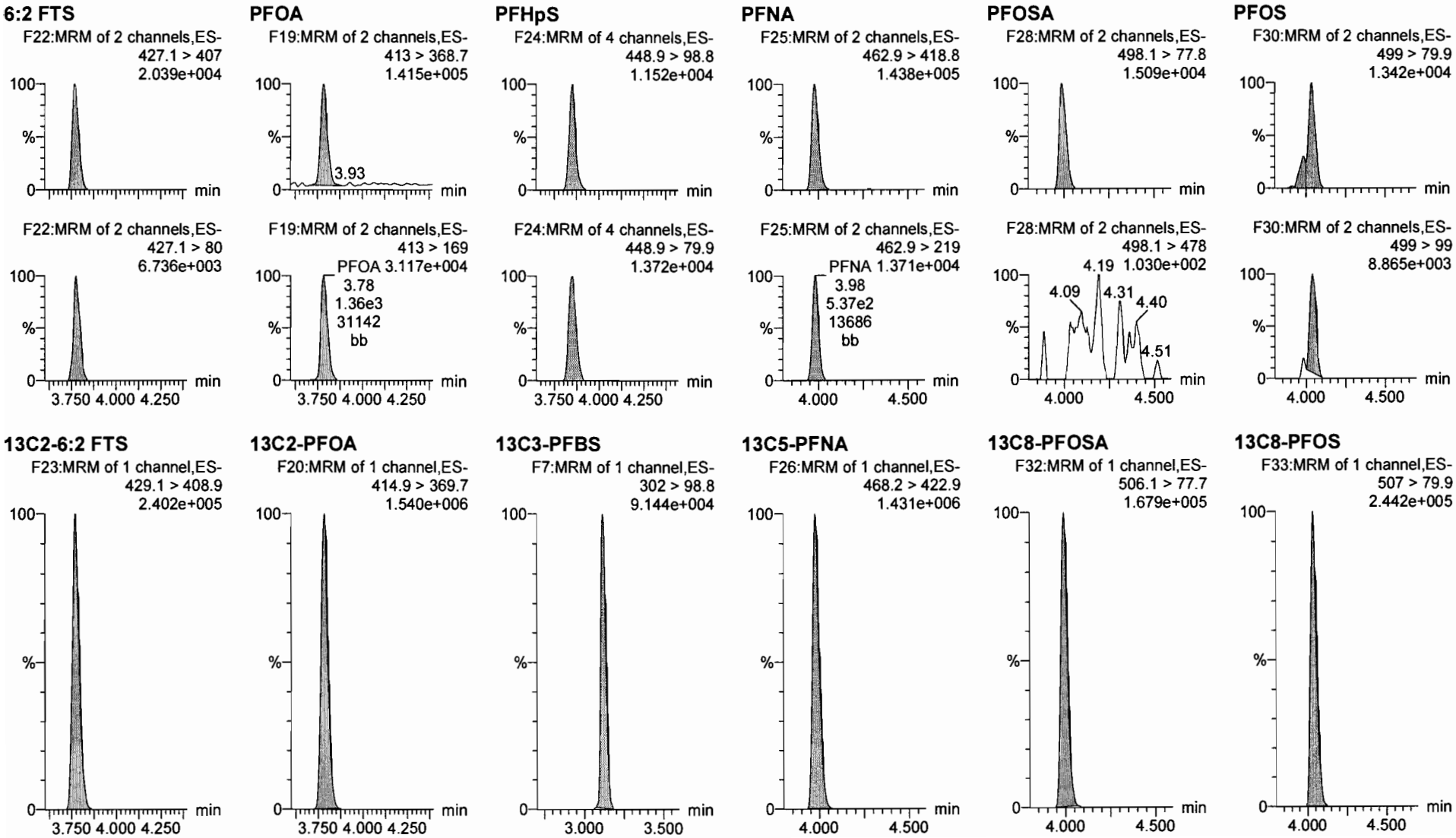
Name: 170810M2_4, Date: 10-Aug-2017, Time: 20:54:09, ID: ST170810M2-3 PFC CS0 17H1004, Description: PFC CS0 17H1004



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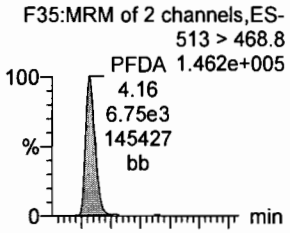
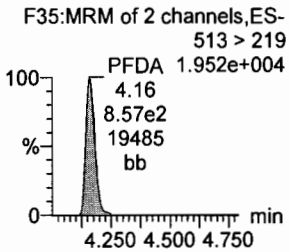
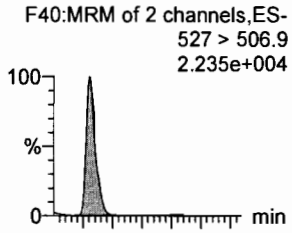
Name: 170810M2_4, Date: 10-Aug-2017, Time: 20:54:09, ID: ST170810M2-3 PFC CS0 17H1004, Description: PFC CS0 17H1004

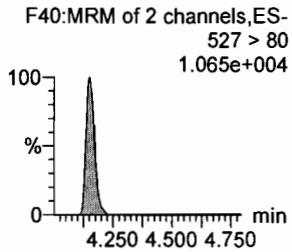
PFDA



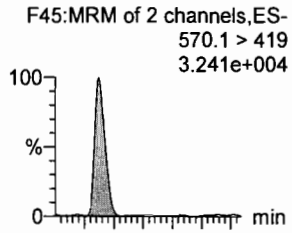


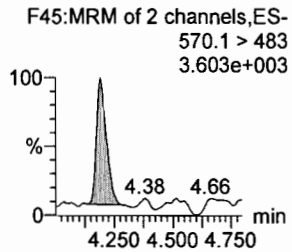
8:2 FTS



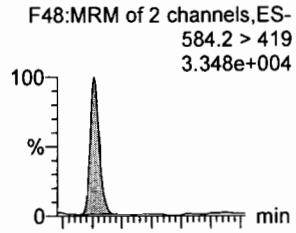


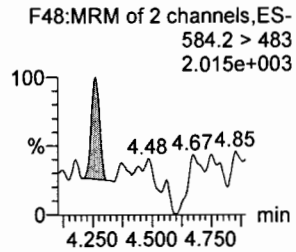
N-MeFOSAA



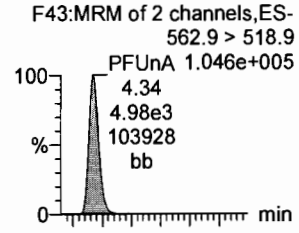


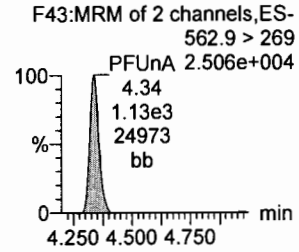
N-EtFOSAA



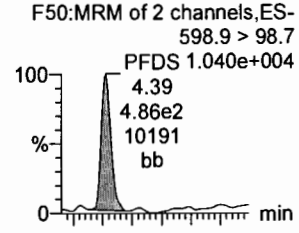


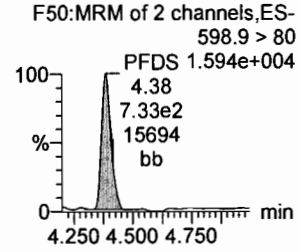
PFUnA



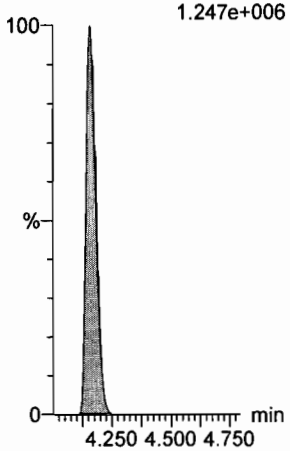


PFDS

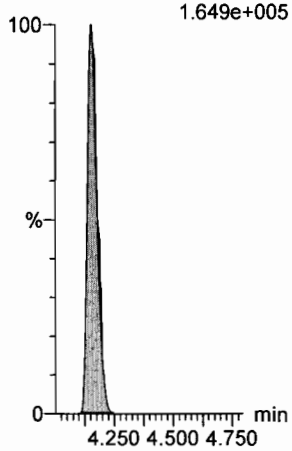




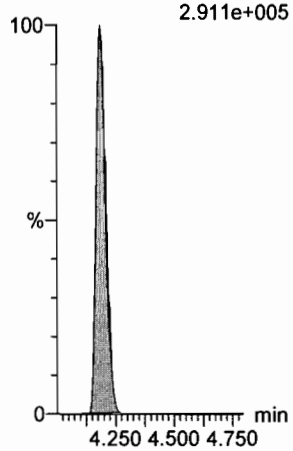
13C2-PFDA



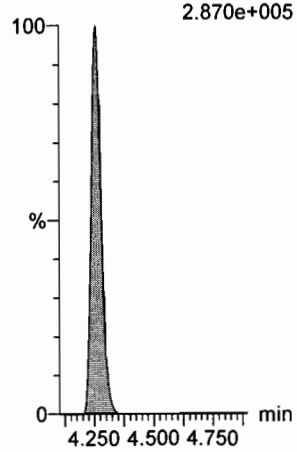
13C2-8:2 FTS



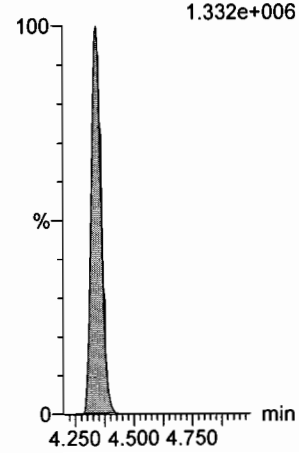
d3-N-MeFOSAA



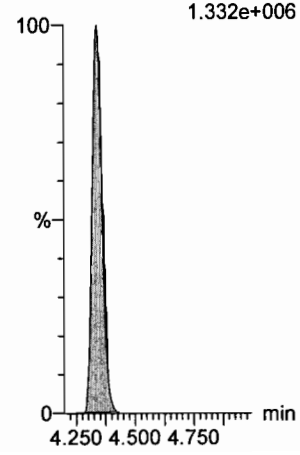
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



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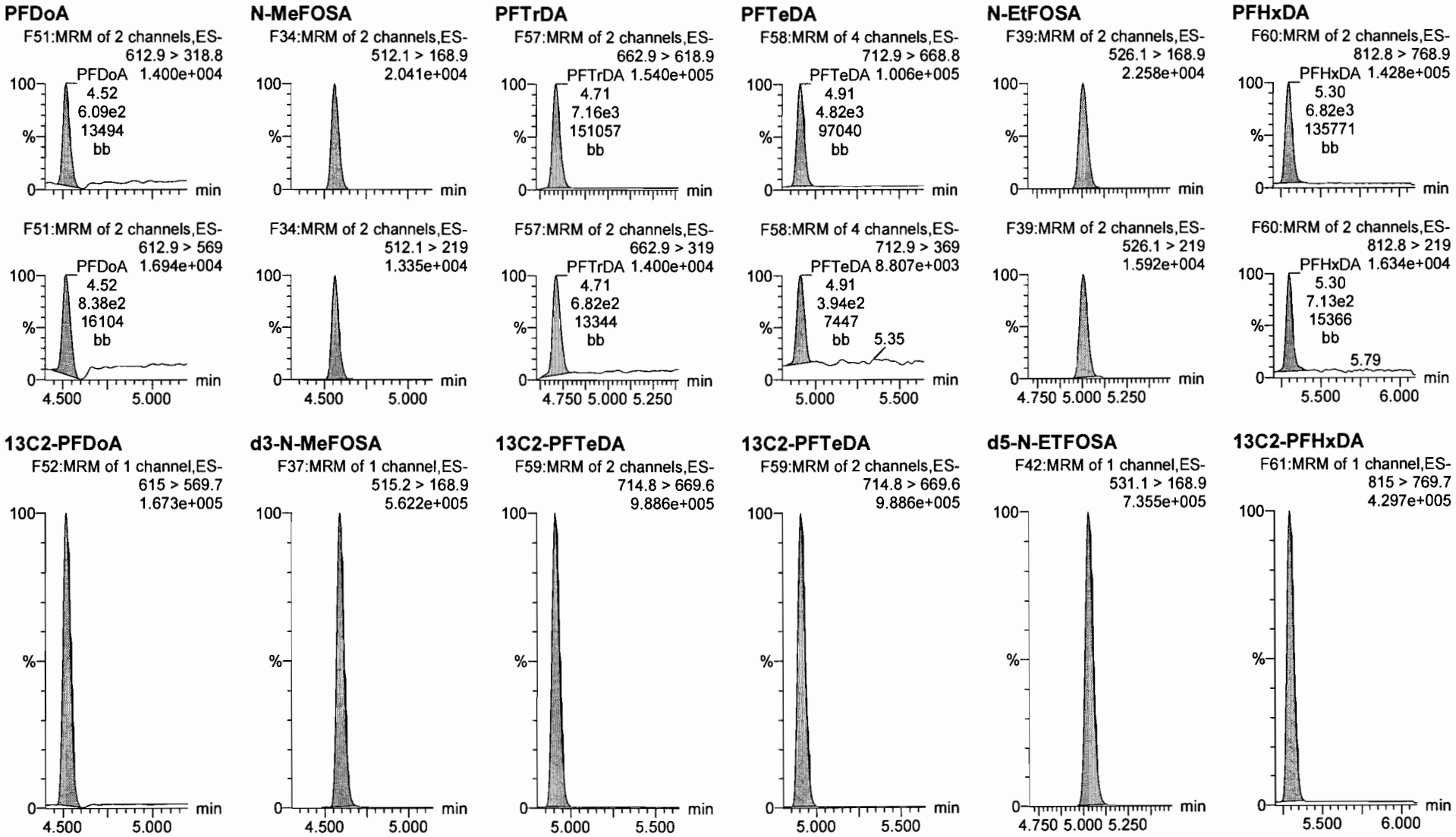
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_4, Date: 10-Aug-2017, Time: 20:54:09, ID: ST170810M2-3 PFC CS0 17H1004, Description: PFC CS0 17H1004

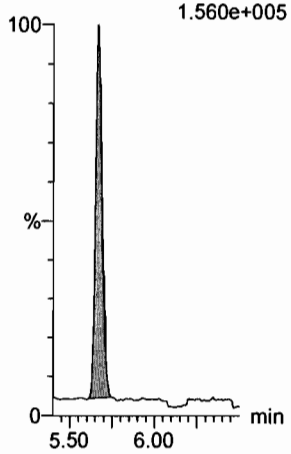


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

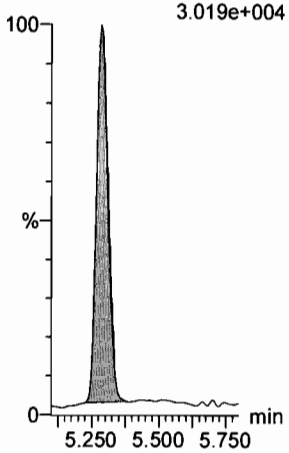
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_4, Date: 10-Aug-2017, Time: 20:54:09, ID: ST170810M2-3 PFC CS0 17H1004, Description: PFC CS0 17H1004

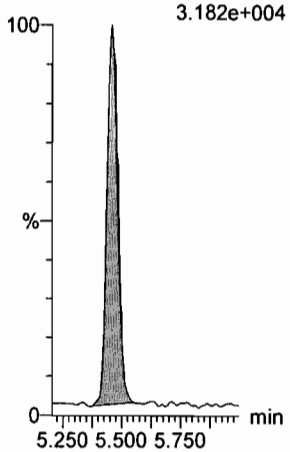
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
1.560e+005



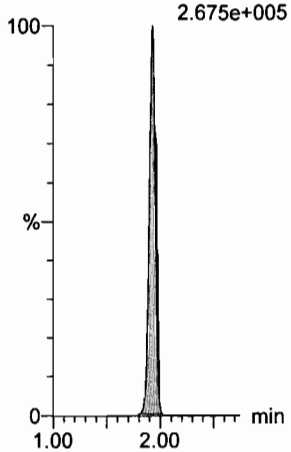
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
3.019e+004



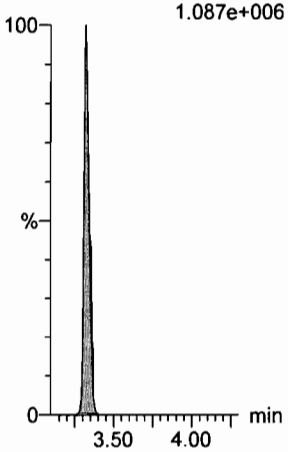
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
3.182e+004



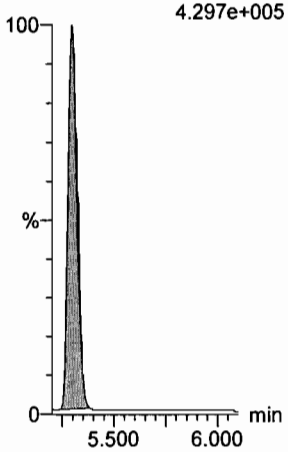
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.675e+005



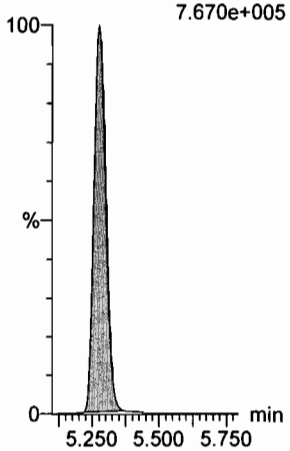
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.087e+006



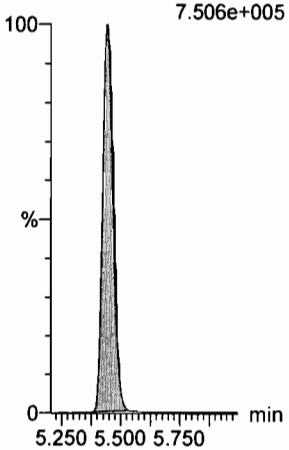
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.297e+005



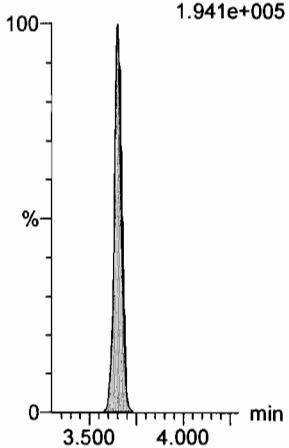
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
7.670e+005



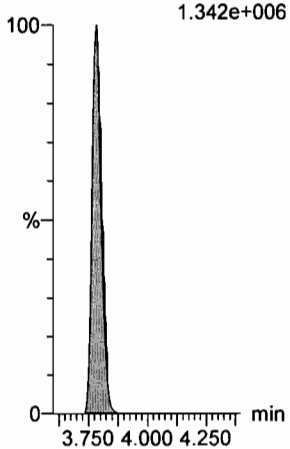
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
7.506e+005



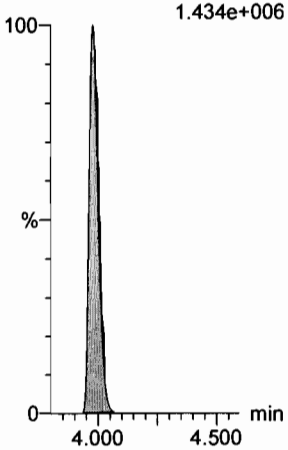
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.941e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.342e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.434e+006



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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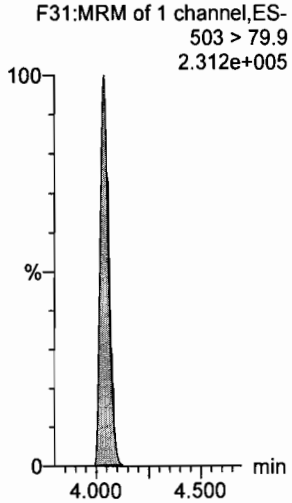
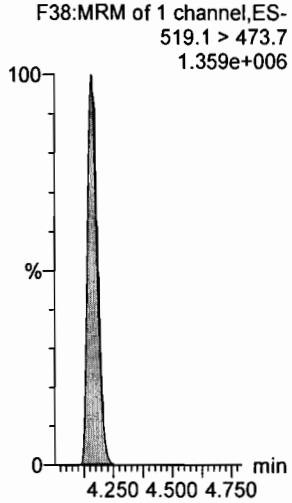
Name: 170810M2_4, Date: 10-Aug-2017, Time: 20:54:09, ID: ST170810M2-3 PFC CS0 17H1004, Description: PFC CS0 17H1004

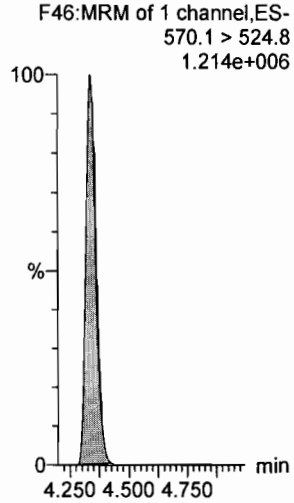
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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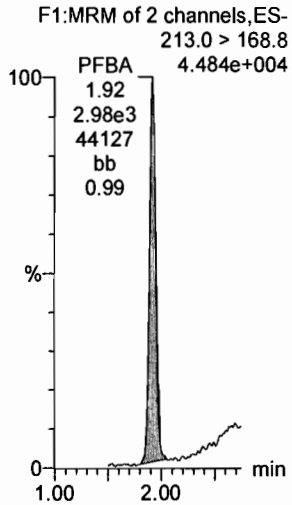
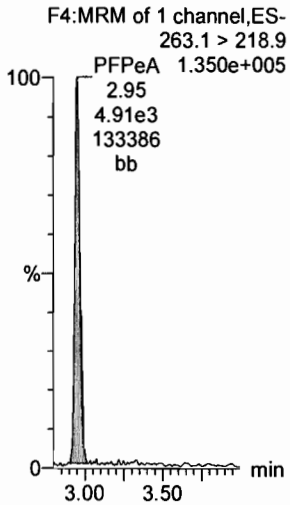
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_5, Date: 10-Aug-2017, Time: 21:05:02, ID: ST170810M2-4 PFC CS1 17H1016, Description: PFC CS1 17H1016

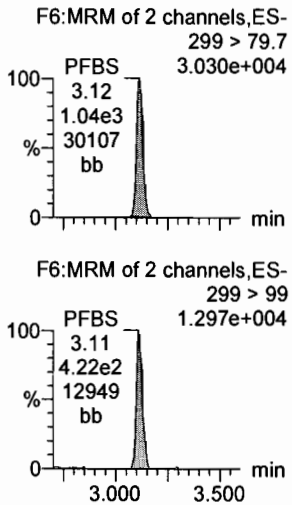
PFBA



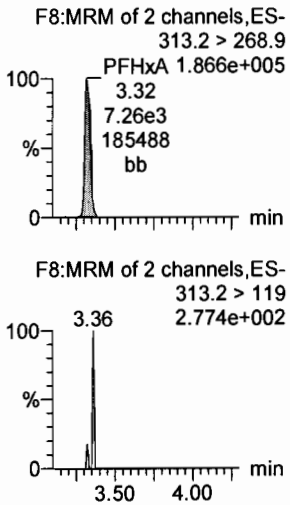
PFPeA



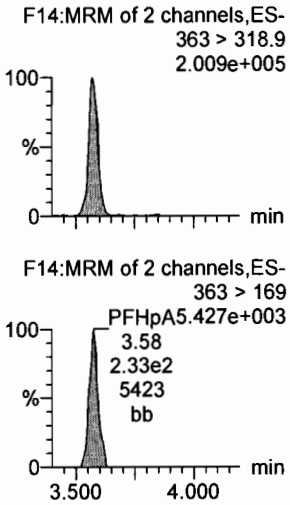
PFBS



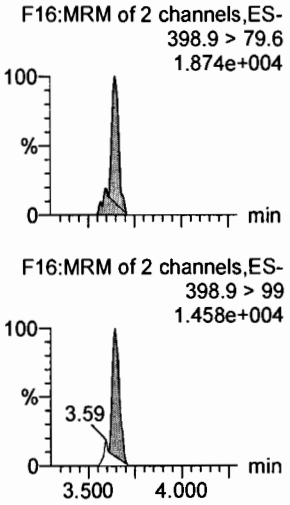
PFHxA



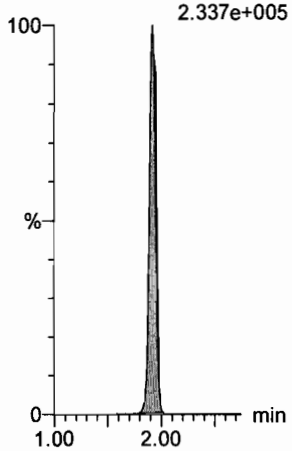
PFHpA



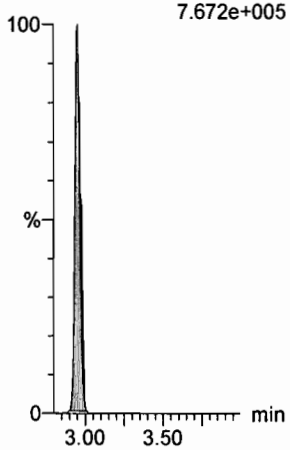
PFHxS



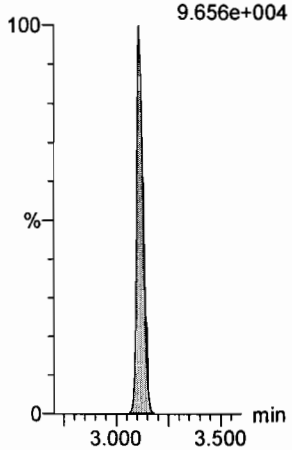
13C3-PFBA



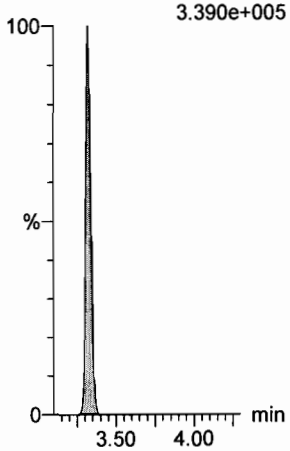
13C3-PFPeA



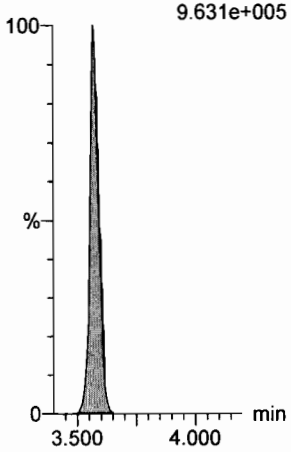
13C3-PFBS



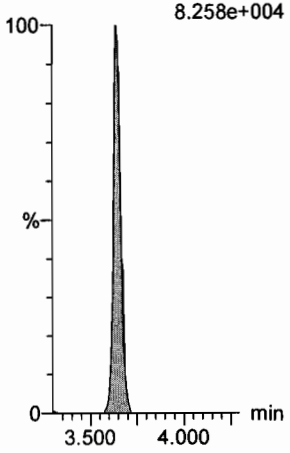
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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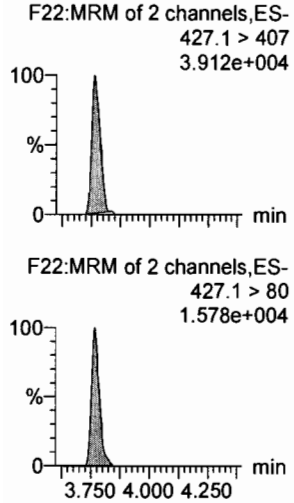
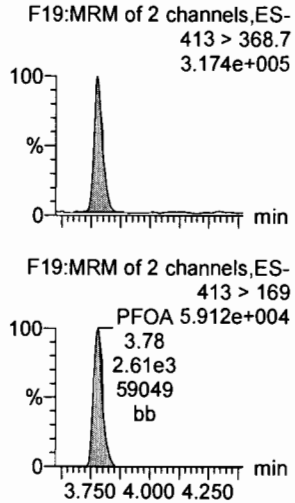
Name: 170810M2_5, Date: 10-Aug-2017, Time: 21:05:02, ID: ST170810M2-4 PFC CS1 17H1016, Description: PFC CS1 17H1016

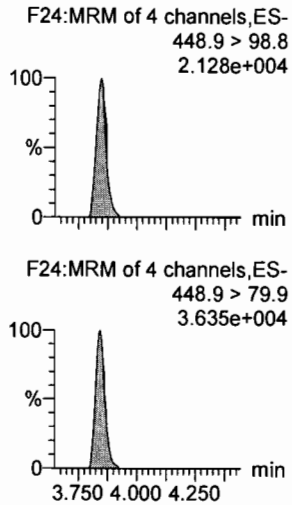
6:2 FTS



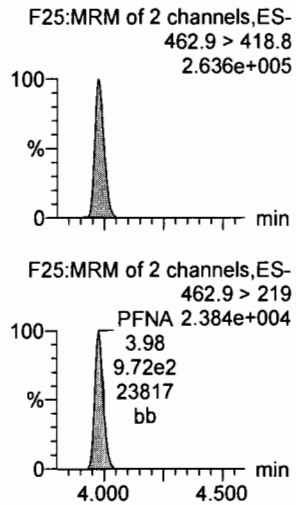
PFOA



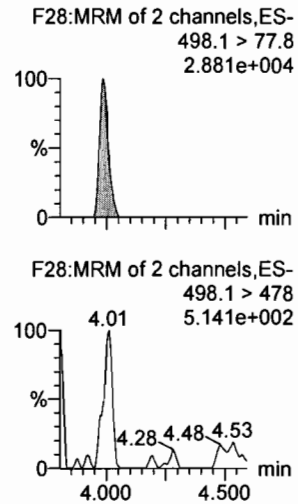
PFHpS



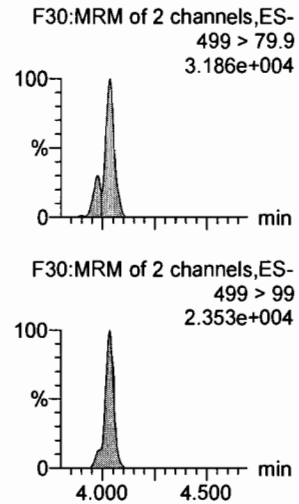
PFNA



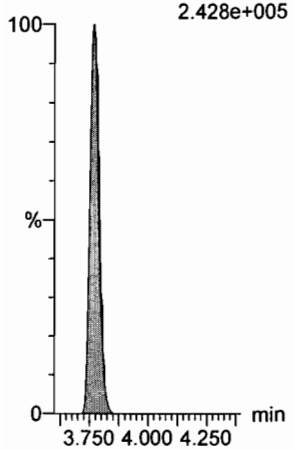
PFOSA



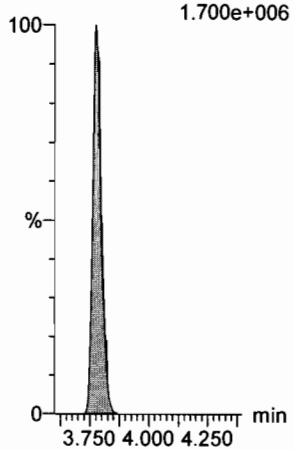
PFOS



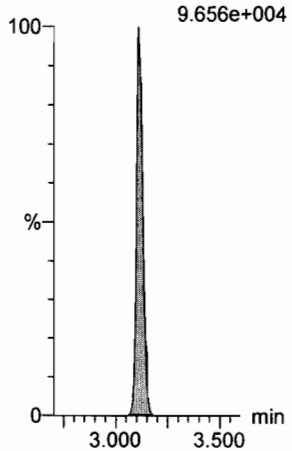
13C2-6:2 FTS



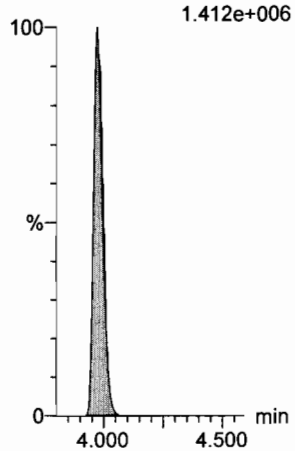
13C2-PFOA



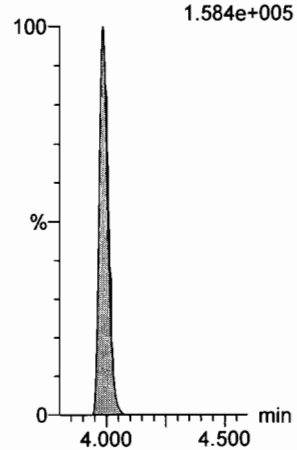
13C3-PFBS



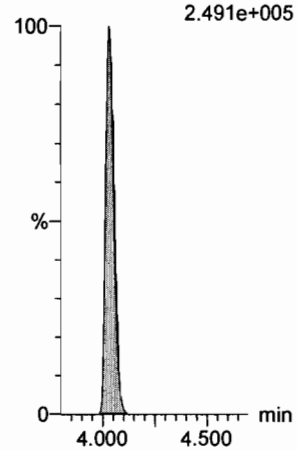
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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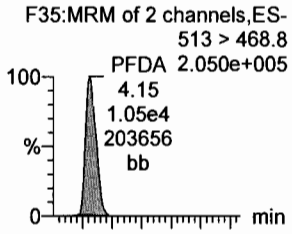
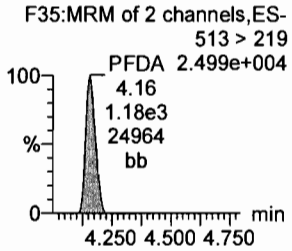
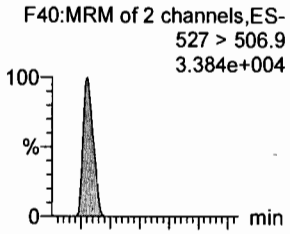
Name: 170810M2_5, Date: 10-Aug-2017, Time: 21:05:02, ID: ST170810M2-4 PFC CS1 17H1016, Description: PFC CS1 17H1016

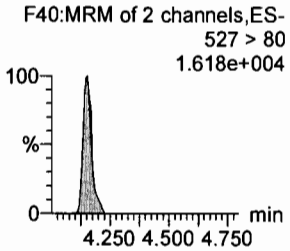
PFDA



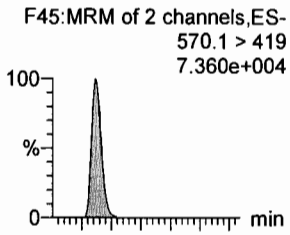


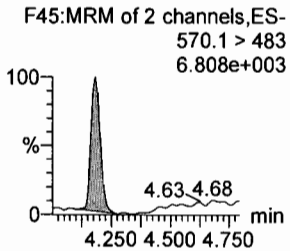
8:2 FTS



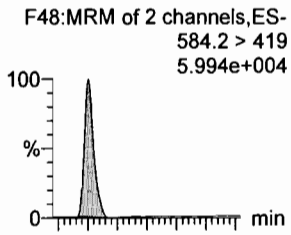


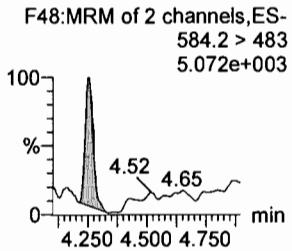
N-MeFOSAA



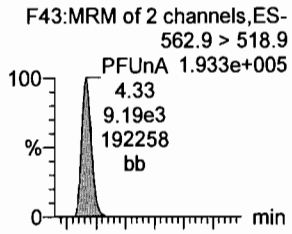


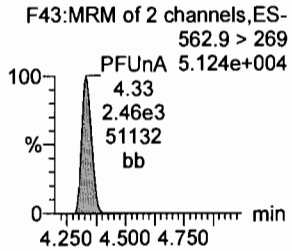
N-EtFOSAA



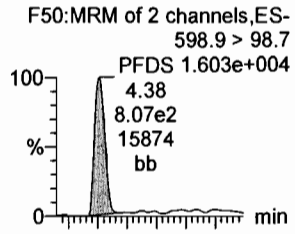


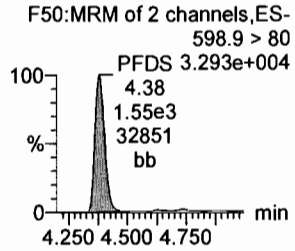
PFUnA



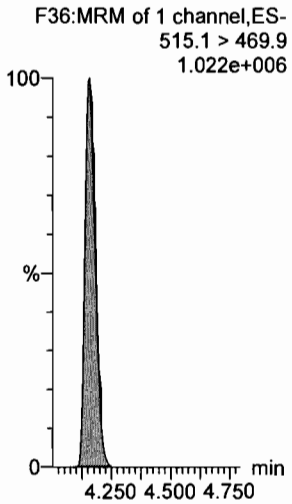


PFDS

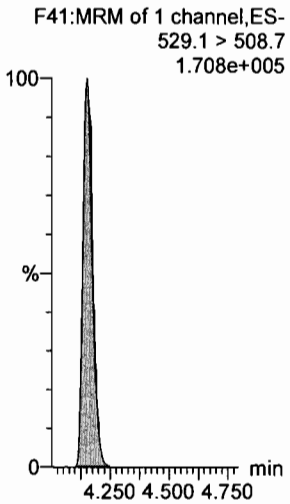




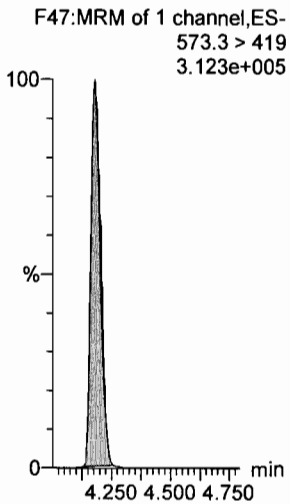
13C2-PFDA



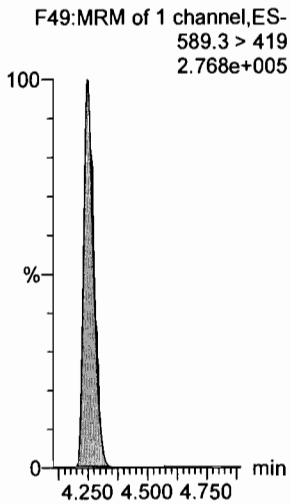
13C2-8:2 FTS



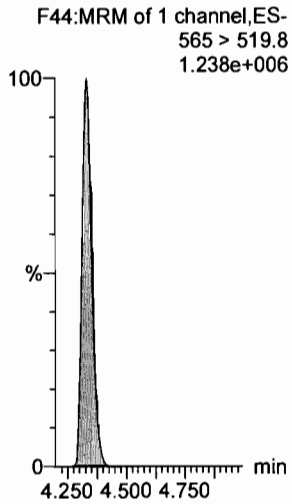
d3-N-MeFOSAA



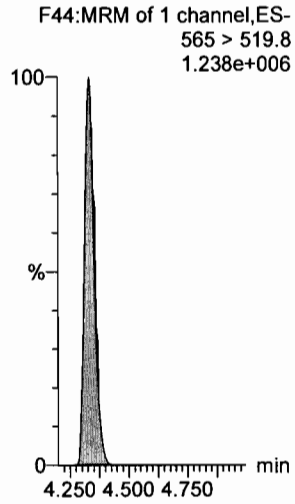
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

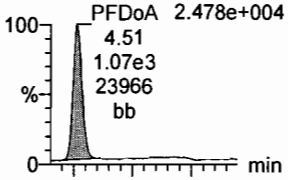


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

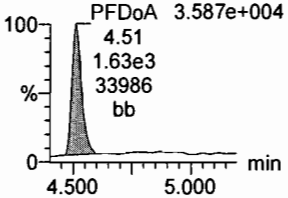
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_5, Date: 10-Aug-2017, Time: 21:05:02, ID: ST170810M2-4 PFC CS1 17H1016, Description: PFC CS1 17H1016

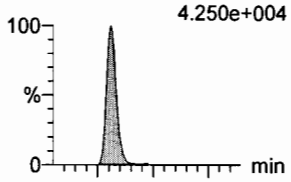
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
PFDoA 2.478e+004
4.51
1.07e3
23966
bb



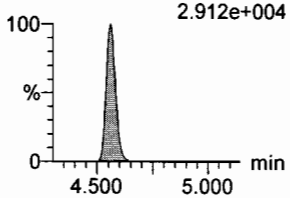
F51:MRM of 2 channels,ES-
612.9 > 569
PFDoA 3.587e+004
4.51
1.63e3
33986
bb



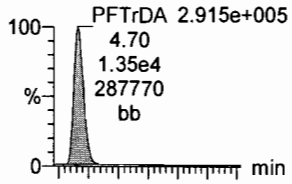
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
4.250e+004



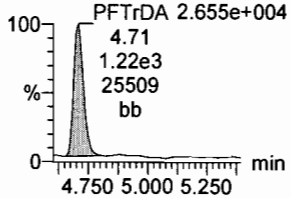
F34:MRM of 2 channels,ES-
512.1 > 219
2.912e+004



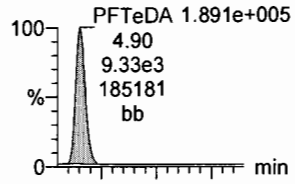
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
PFTrDA 2.915e+005
4.70
1.35e4
287770
bb



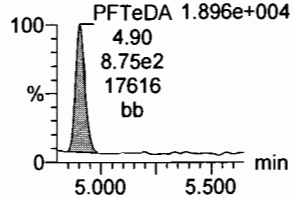
F57:MRM of 2 channels,ES-
662.9 > 319
PFTrDA 2.655e+004
4.71
1.22e3
25509
bb



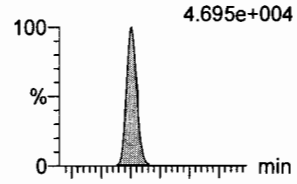
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
PFTeDA 1.891e+005
4.90
9.33e3
185181
bb



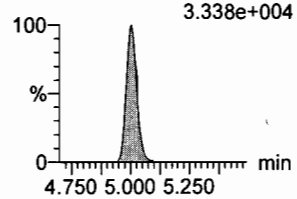
F58:MRM of 4 channels,ES-
712.9 > 369
PFTeDA 1.896e+004
4.90
8.75e2
17616
bb



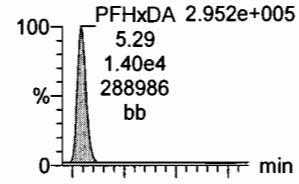
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
4.695e+004



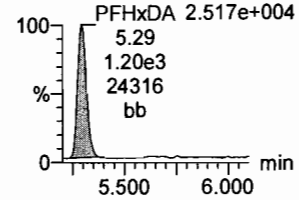
F39:MRM of 2 channels,ES-
526.1 > 219
3.338e+004



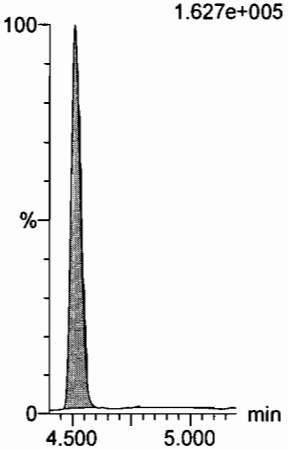
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
PFHxDA 2.952e+005
5.29
1.40e4
288986
bb



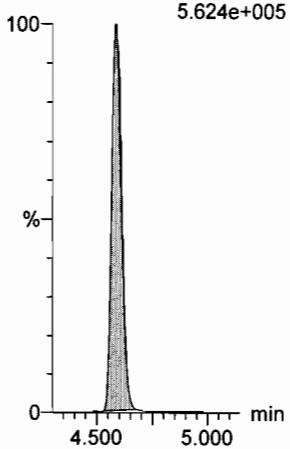
F60:MRM of 2 channels,ES-
812.8 > 219
PFHxDA 2.517e+004
5.29
1.20e3
24316
bb



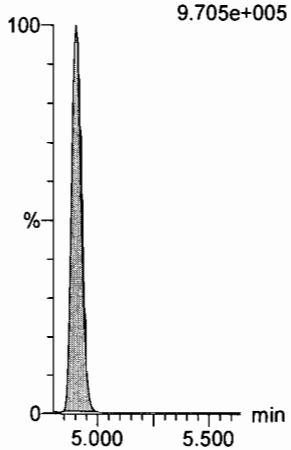
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.627e+005



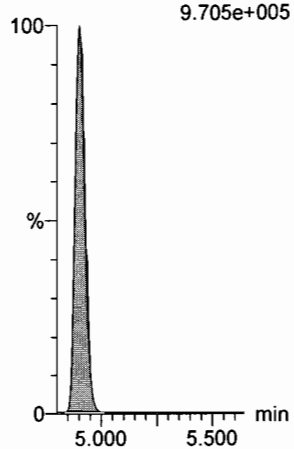
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
5.624e+005



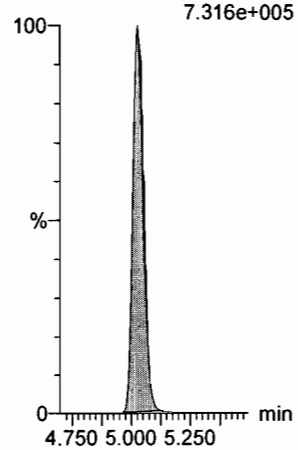
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
9.705e+005



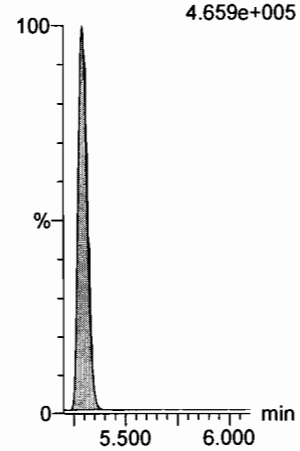
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
9.705e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
7.316e+005



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.659e+005



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

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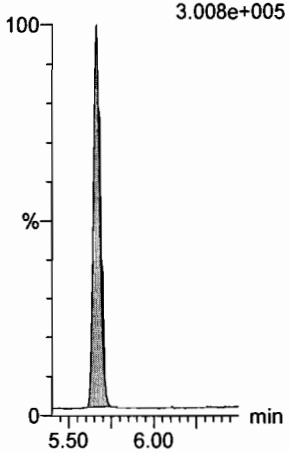
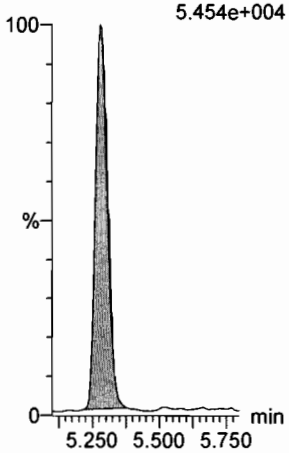
Name: 170810M2_5, Date: 10-Aug-2017, Time: 21:05:02, ID: ST170810M2-4 PFC CS1 17H1016, Description: PFC CS1 17H1016

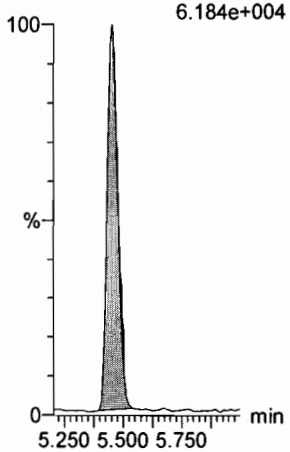
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
3.008e+005



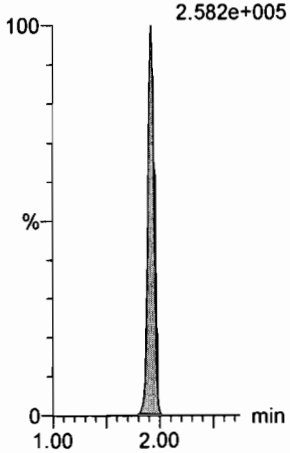
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
5.454e+004



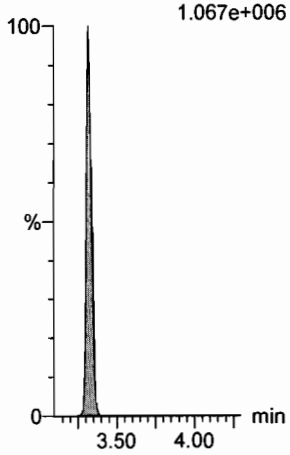
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
6.184e+004



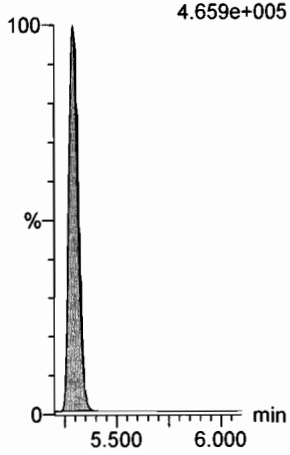
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.582e+005



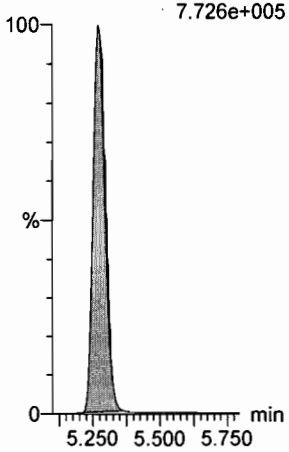
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.067e+006



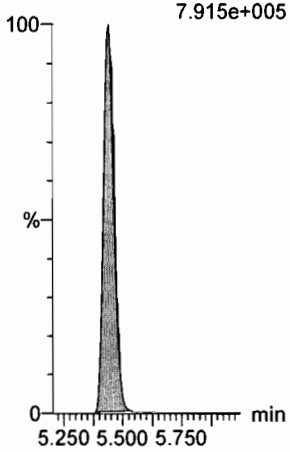
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.659e+005



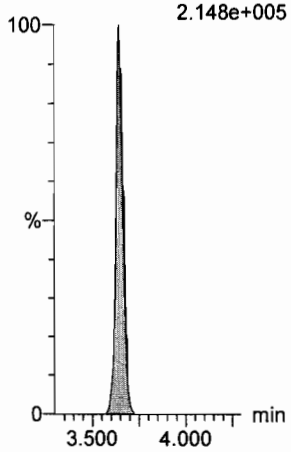
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
7.726e+005



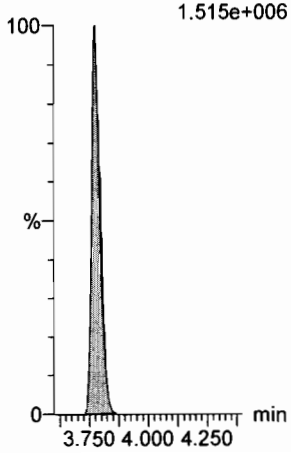
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
7.915e+005



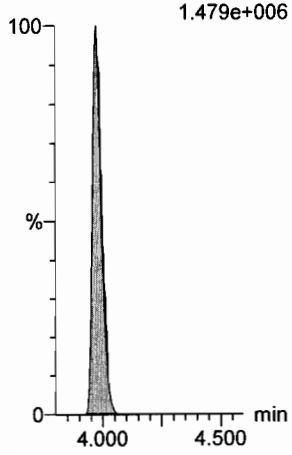
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
2.148e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.515e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.479e+006



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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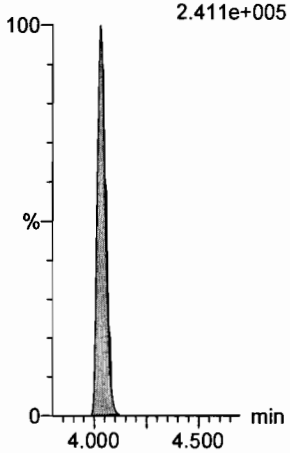
Name: 170810M2_5, Date: 10-Aug-2017, Time: 21:05:02, ID: ST170810M2-4 PFC CS1 17H1016, Description: PFC CS1 17H1016

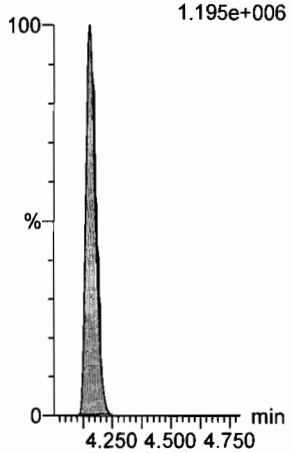
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
2.411e+005



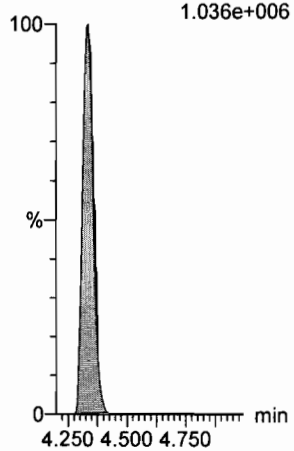
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.195e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.036e+006



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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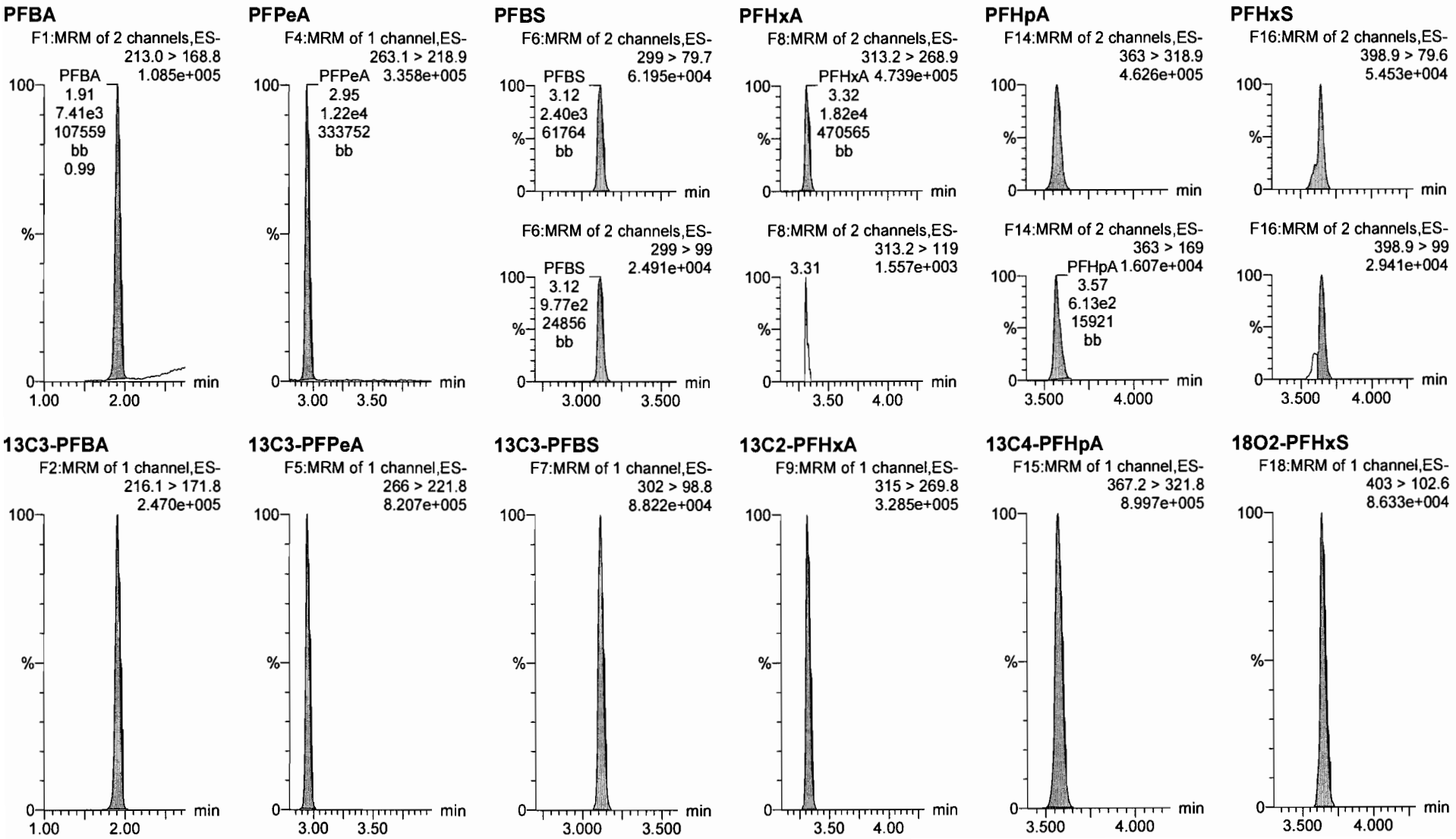
Name: 170810M2_6, Date: 10-Aug-2017, Time: 21:15:44, ID: ST170810M2-5 PFC CS2 17H1017, Description: PFC CS2 17H1017

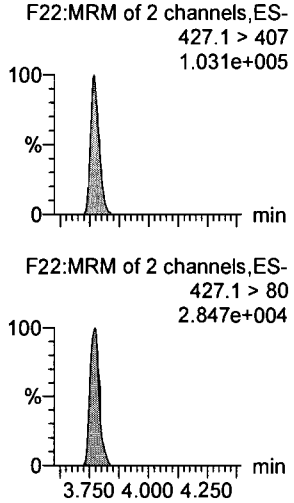


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

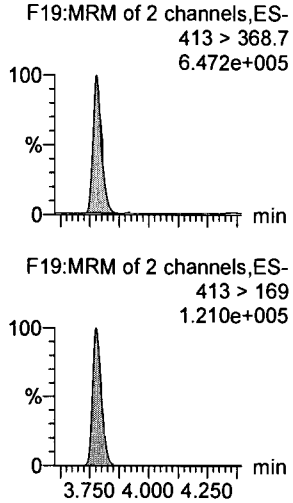
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_6, Date: 10-Aug-2017, Time: 21:15:44, ID: ST170810M2-5 PFC CS2 17H1017, Description: PFC CS2 17H1017

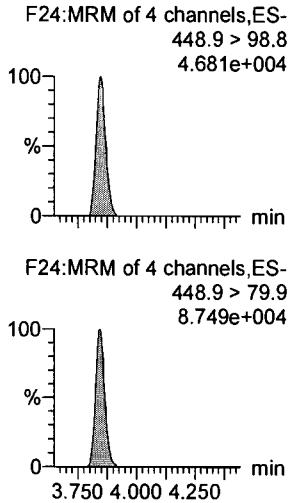
6:2 FTS



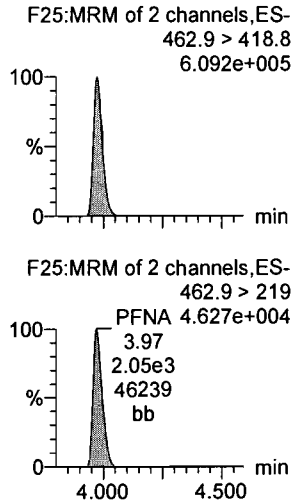
PFOA



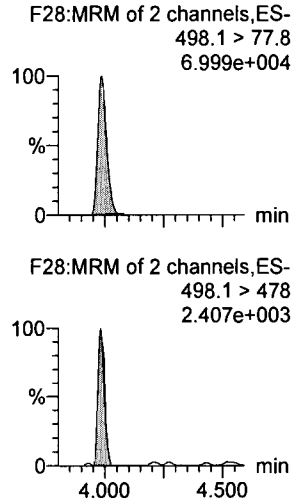
PFHpS



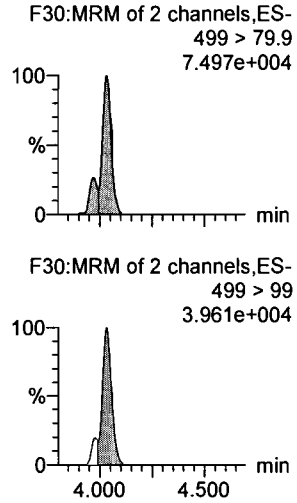
PFNA



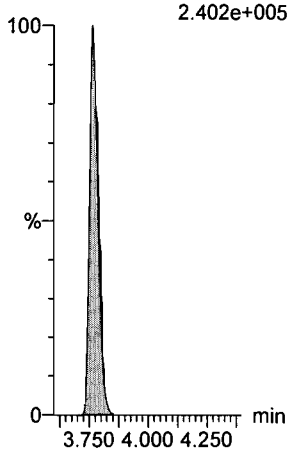
PFOSA



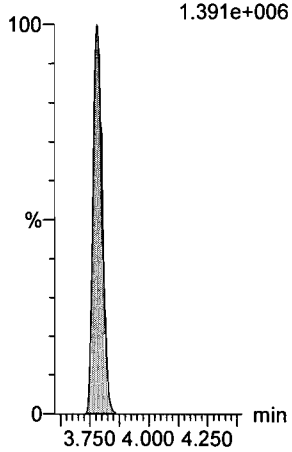
PFOS



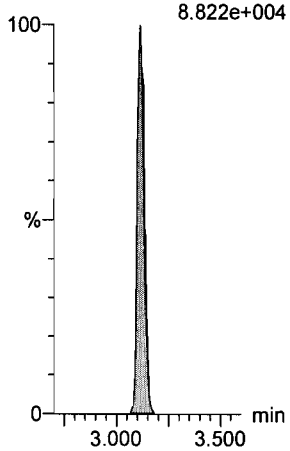
13C2-6:2 FTS



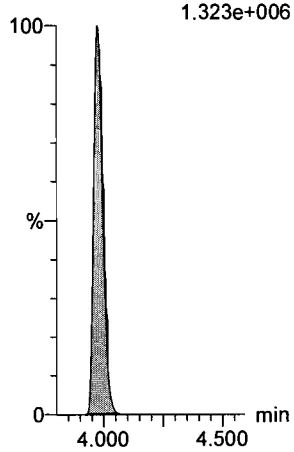
13C2-PFOA



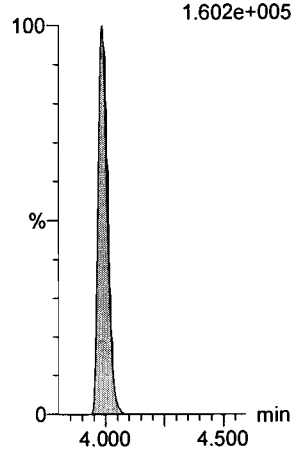
13C3-PFBS



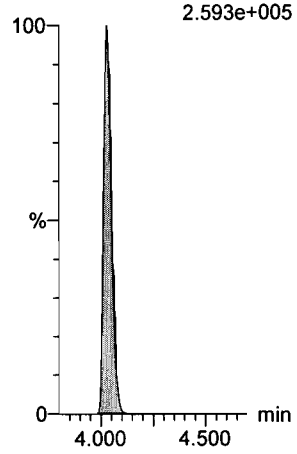
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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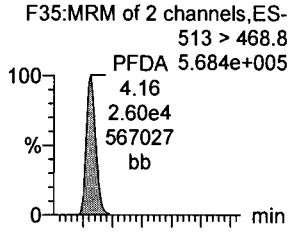
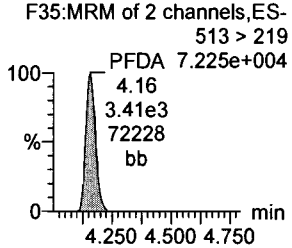
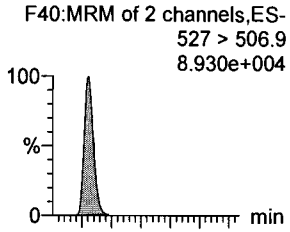
Name: 170810M2_6, Date: 10-Aug-2017, Time: 21:15:44, ID: ST170810M2-5 PFC CS2 17H1017, Description: PFC CS2 17H1017

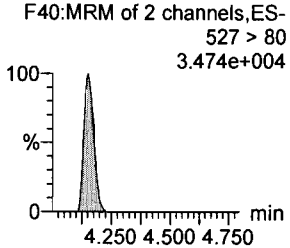
PFDA



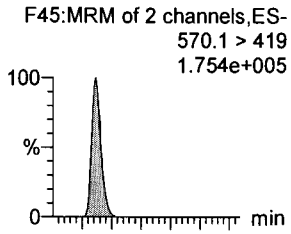


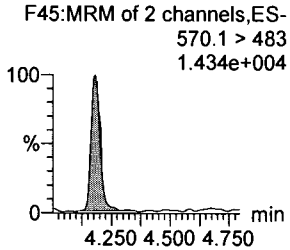
8:2 FTS



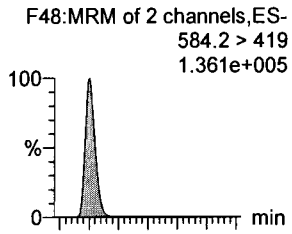


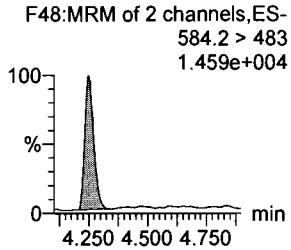
N-MeFOSAA



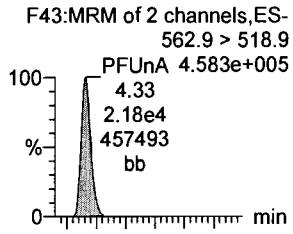


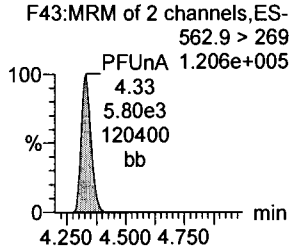
N-EtFOSAA



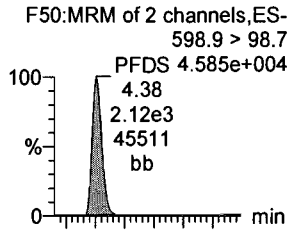


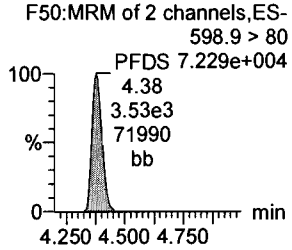
PFUnA



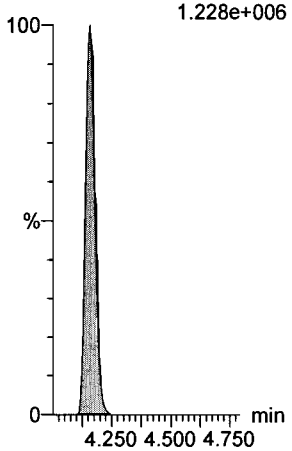


PFDS

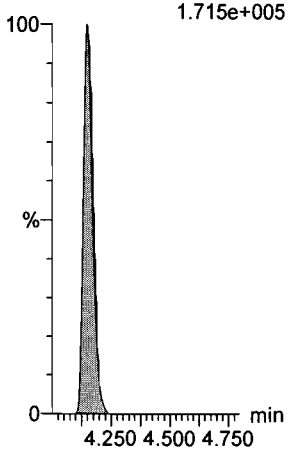




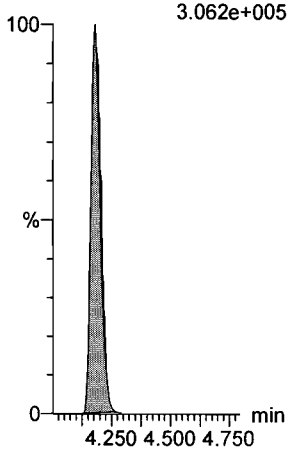
13C2-PFDA



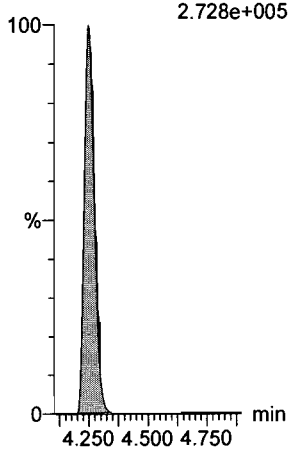
13C2-8:2 FTS



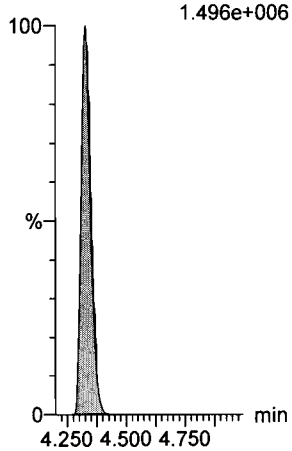
d3-N-MeFOSAA



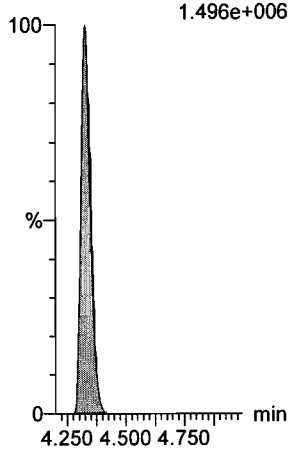
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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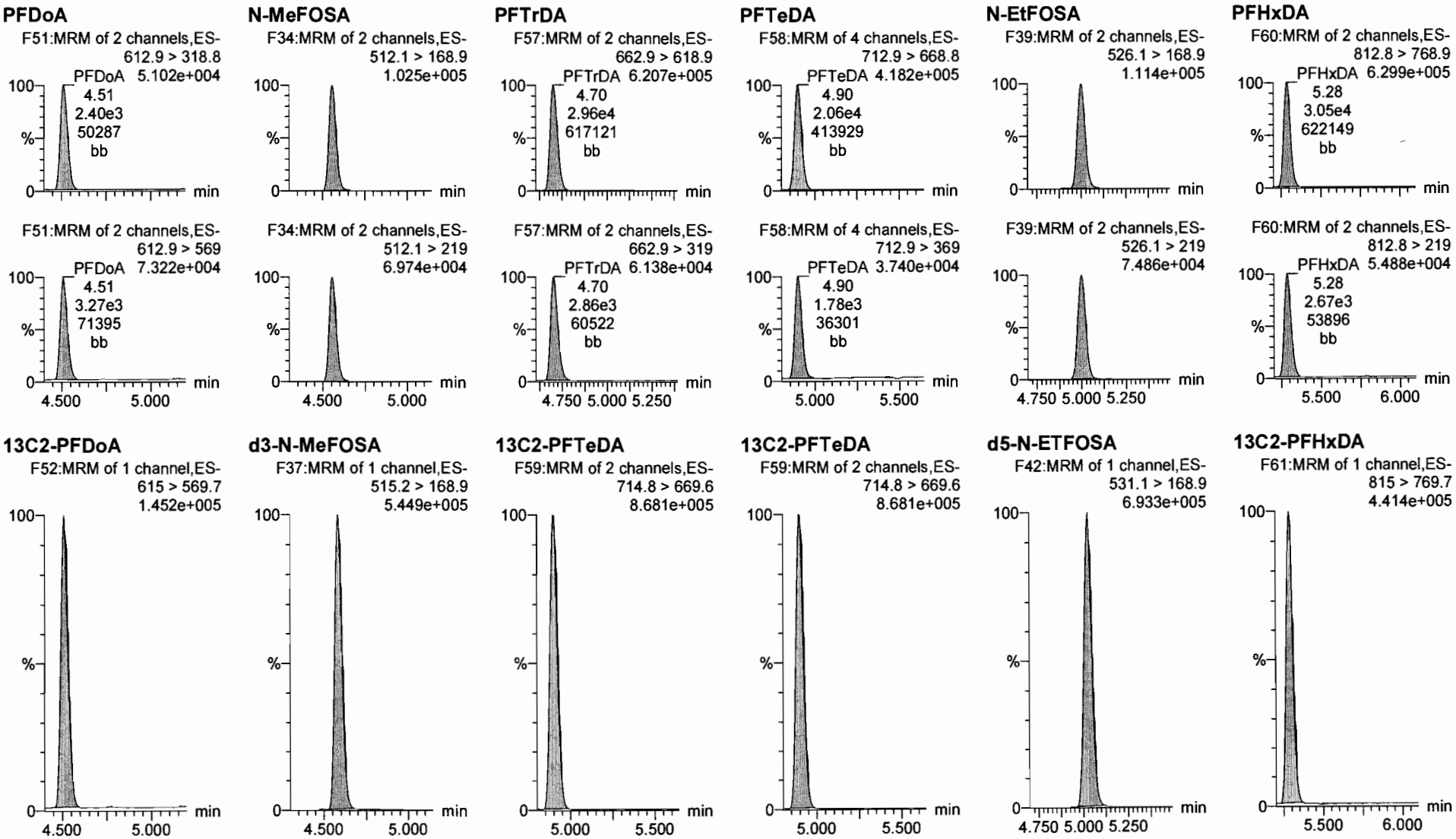
Name: 170810M2_6, Date: 10-Aug-2017, Time: 21:15:44, ID: ST170810M2-5 PFC CS2 17H1017, Description: PFC CS2 17H1017



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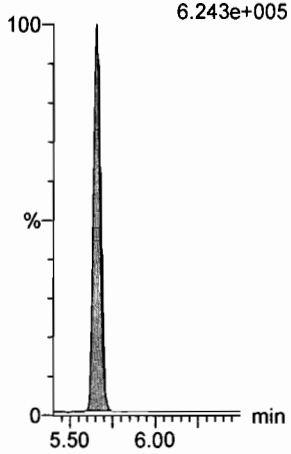
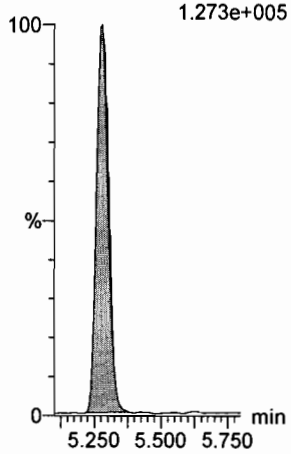
Name: 170810M2_6, Date: 10-Aug-2017, Time: 21:15:44, ID: ST170810M2-5 PFC CS2 17H1017, Description: PFC CS2 17H1017

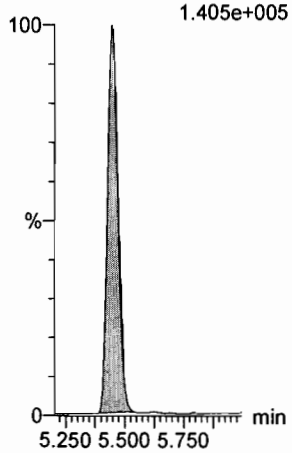
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
6.243e+005



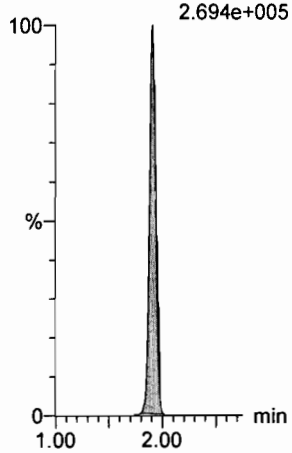
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
1.273e+005



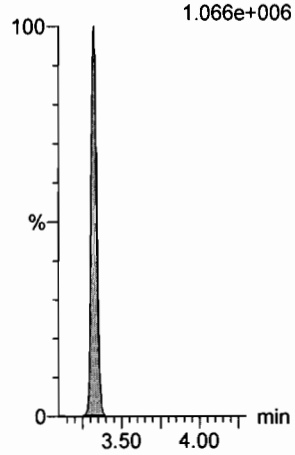
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
1.405e+005



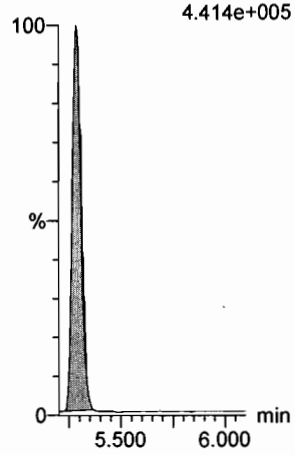
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.694e+005



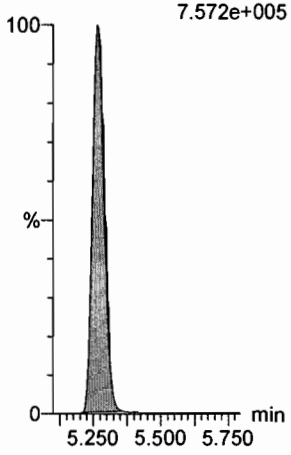
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.066e+006



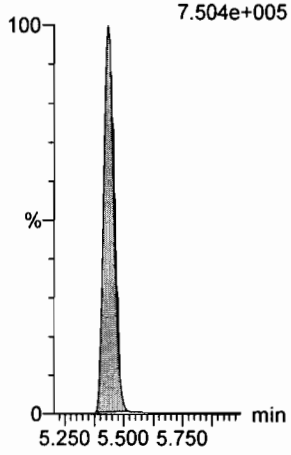
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.414e+005



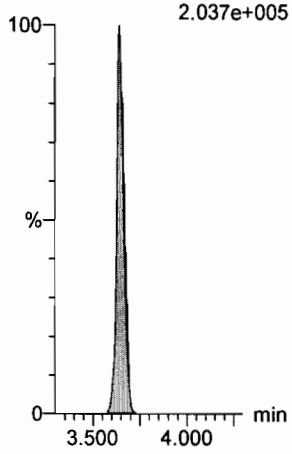
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
7.572e+005



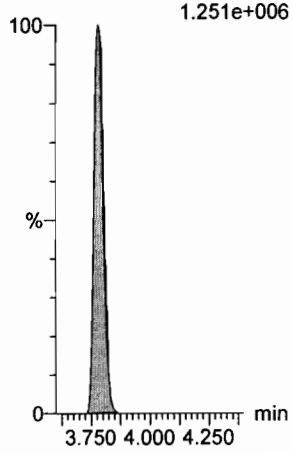
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
7.504e+005



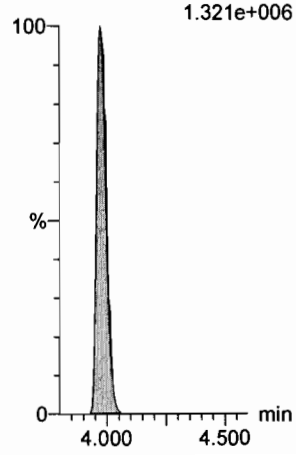
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
2.037e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.251e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.321e+006



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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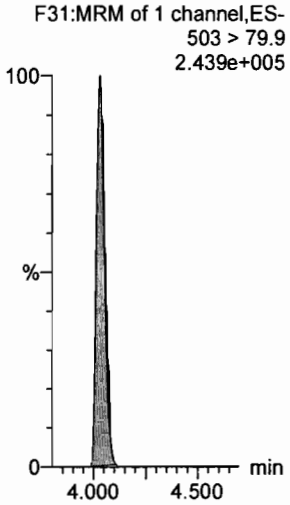
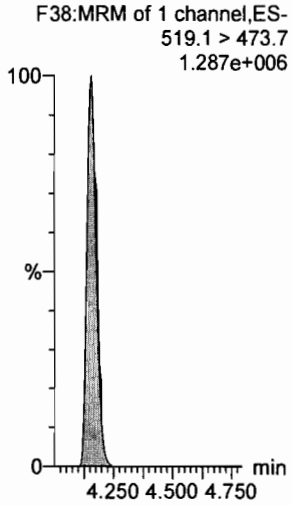
Name: 170810M2_6, Date: 10-Aug-2017, Time: 21:15:44, ID: ST170810M2-5 PFC CS2 17H1017, Description: PFC CS2 17H1017

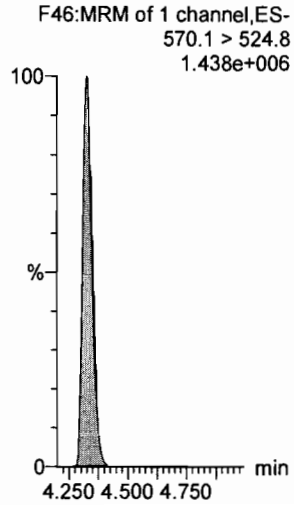
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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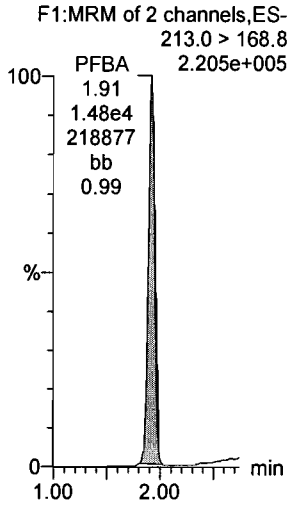
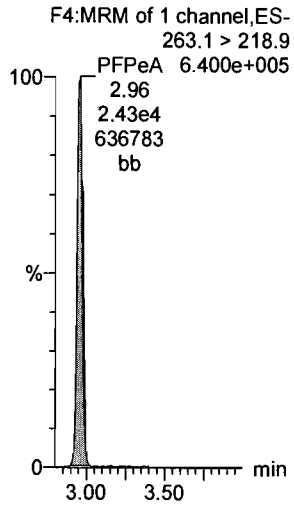
Name: 170810M2_7, Date: 10-Aug-2017, Time: 21:26:22, ID: ST170810M2-6 PFC CS3 17H1005, Description: PFC CS3 17H1005

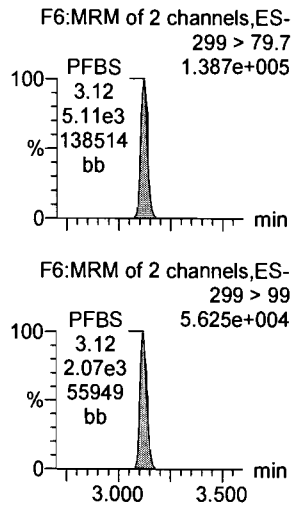
PFBA



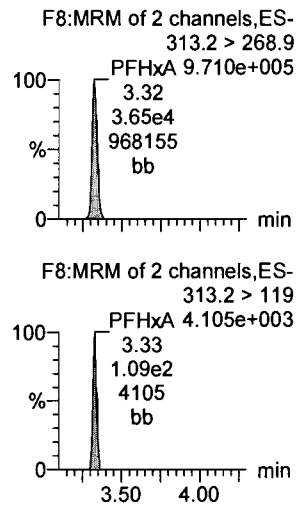
PFPeA



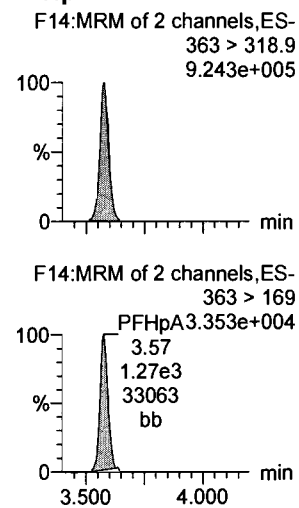
PFBS



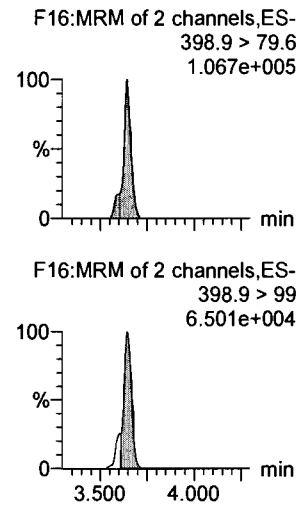
PFHxA



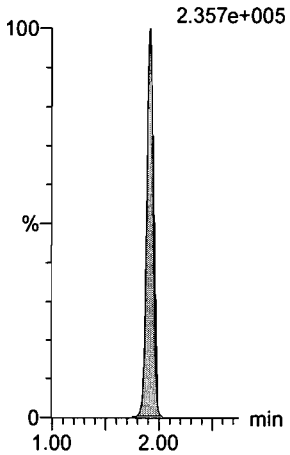
PFHpA



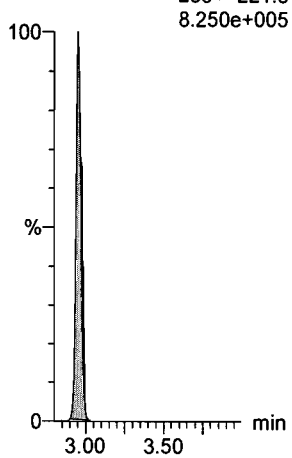
PFHxS



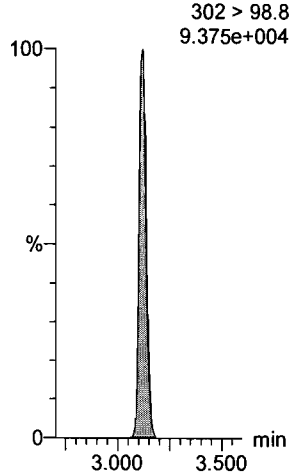
13C3-PFBA



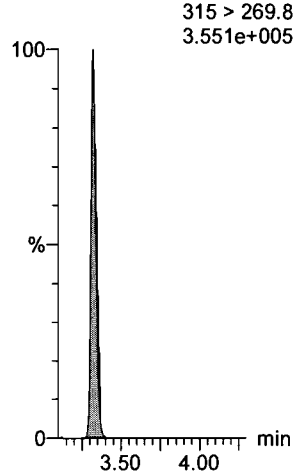
13C3-PFPeA



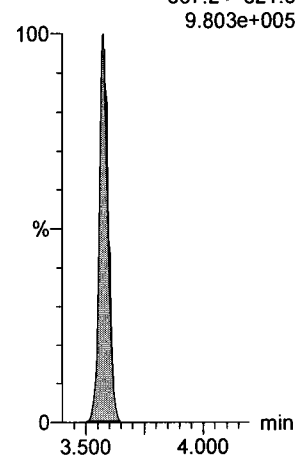
13C3-PFBS



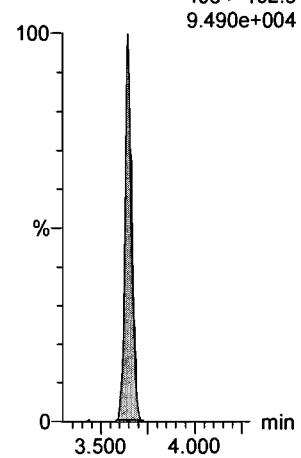
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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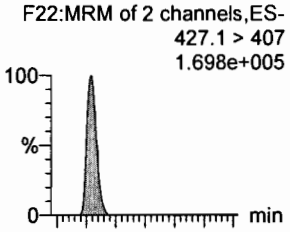
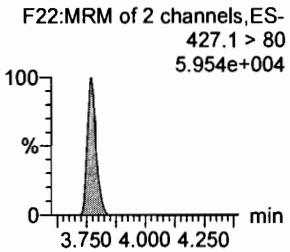
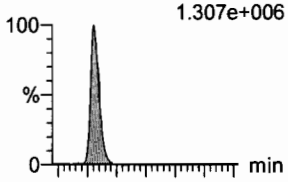
Name: 170810M2_7, Date: 10-Aug-2017, Time: 21:26:22, ID: ST170810M2-6 PFC CS3 17H1005, Description: PFC CS3 17H1005

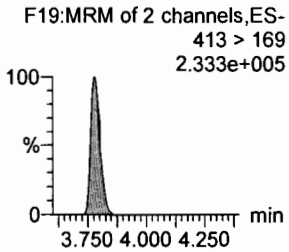
6:2 FTS



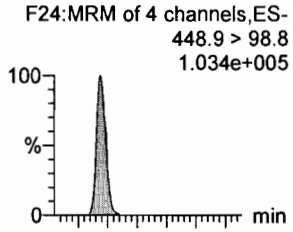


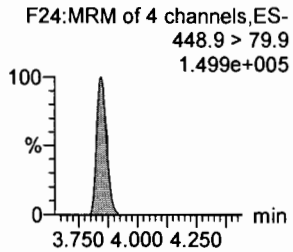
PFOA





PFHpS





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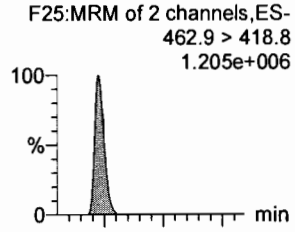

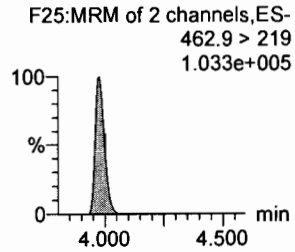

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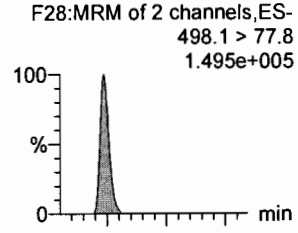

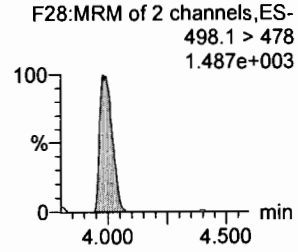

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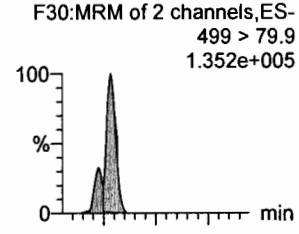
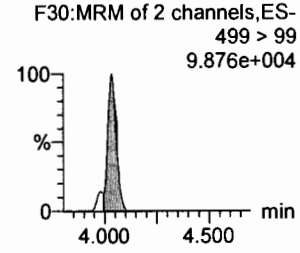
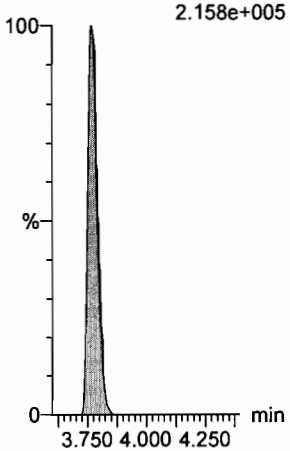
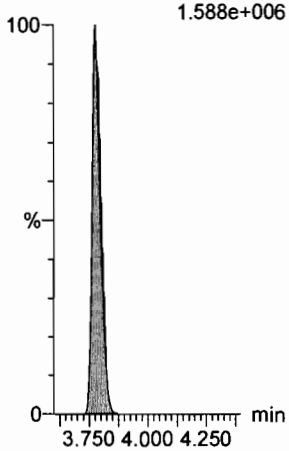




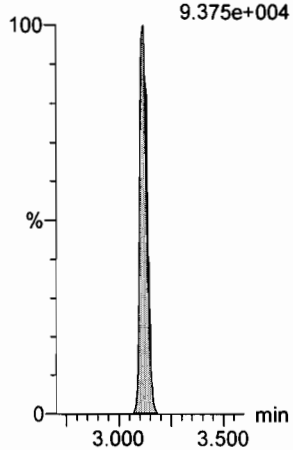
13C2-6:2 FTS



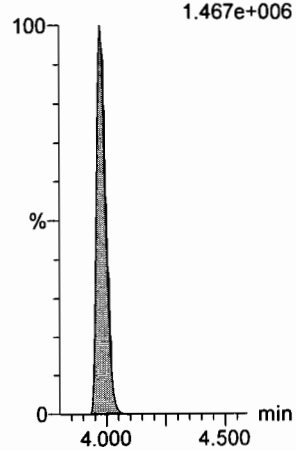
13C2-PFOA



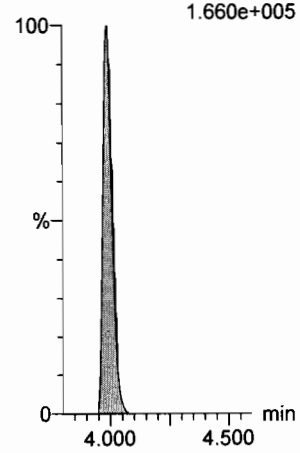
13C3-PFBS



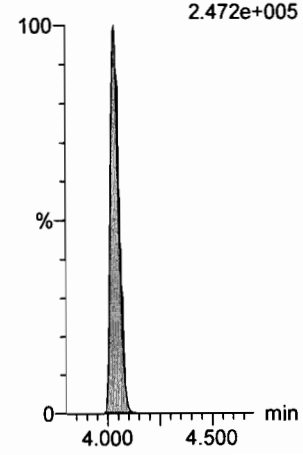
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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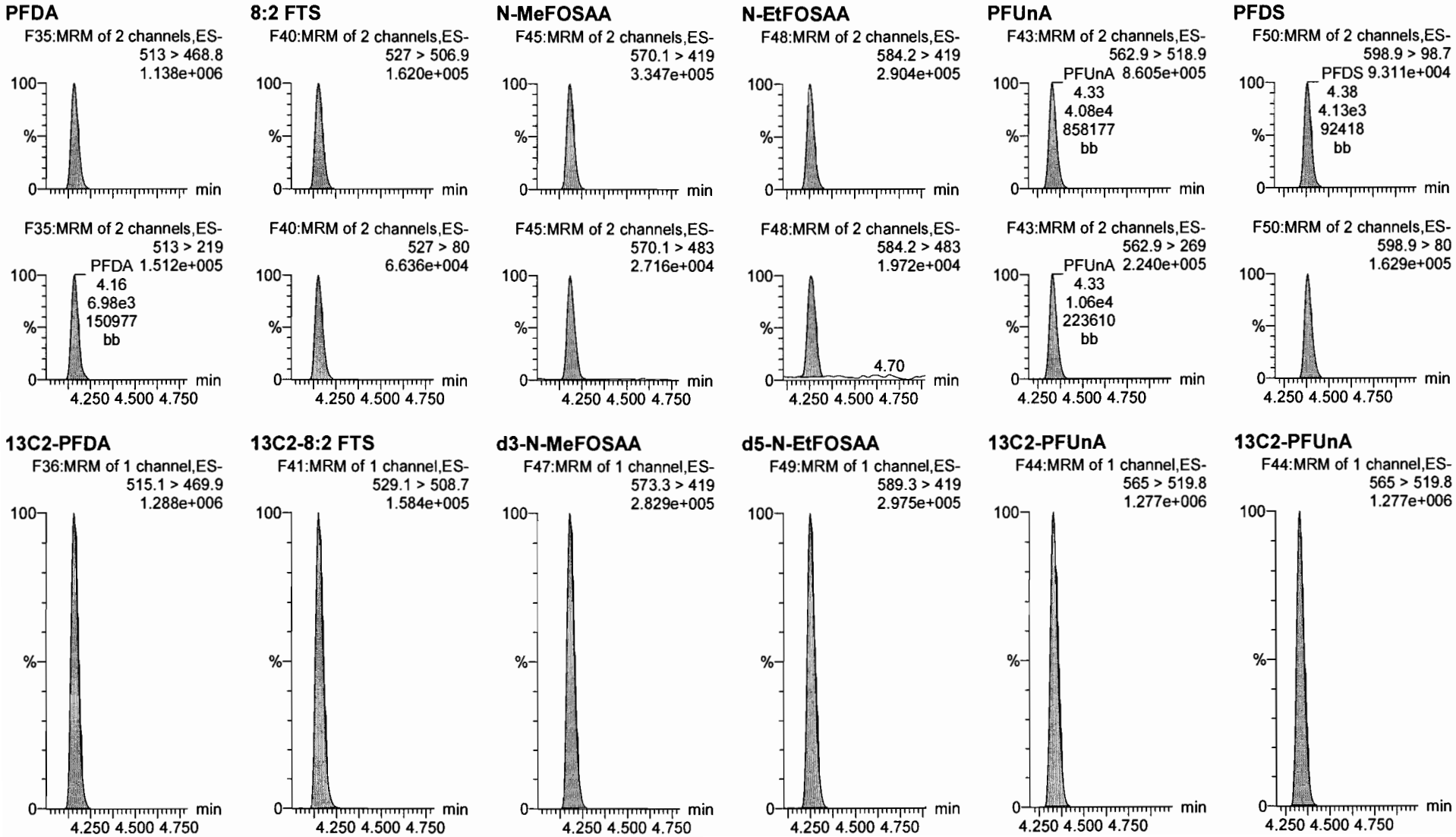
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_7, Date: 10-Aug-2017, Time: 21:26:22, ID: ST170810M2-6 PFC CS3 17H1005, Description: PFC CS3 17H1005



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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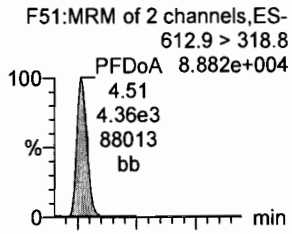
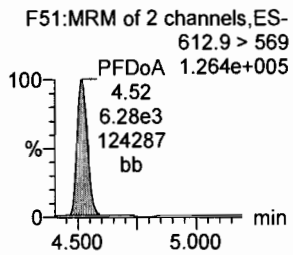
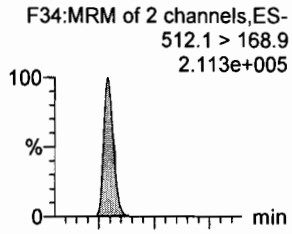
Name: 170810M2_7, Date: 10-Aug-2017, Time: 21:26:22, ID: ST170810M2-6 PFC CS3 17H1005, Description: PFC CS3 17H1005

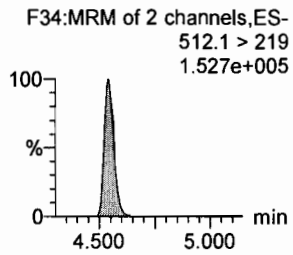
PFDoA





N-MeFOSA





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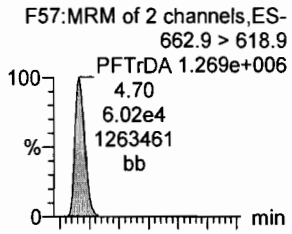

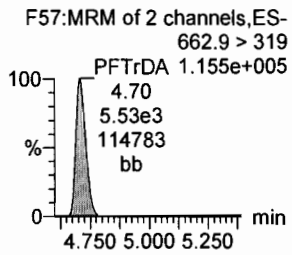

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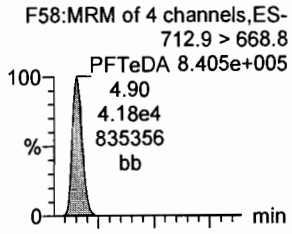
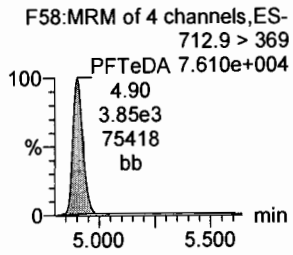
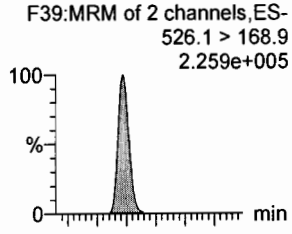
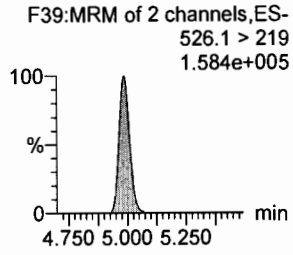




N-EtFOSA





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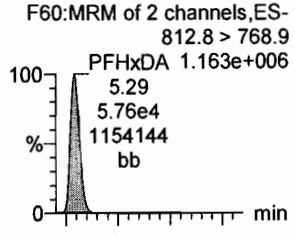
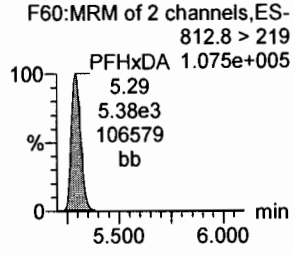
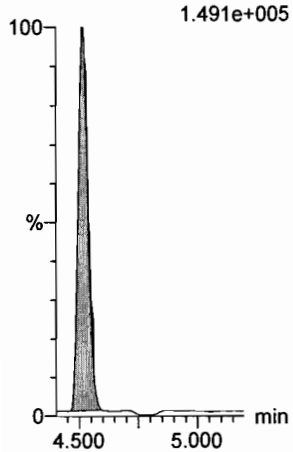
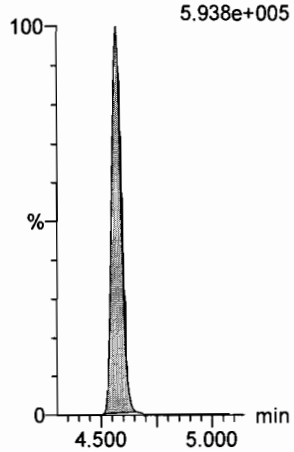




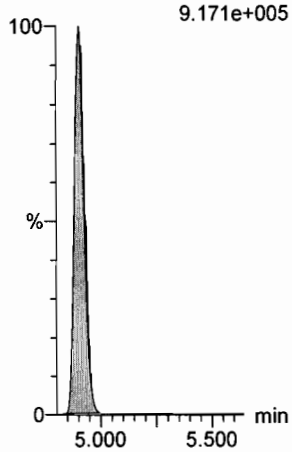
13C2-PFDoA



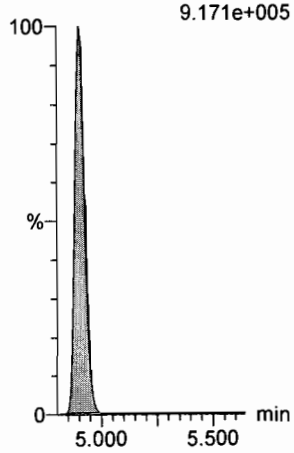
d3-N-MeFOSA



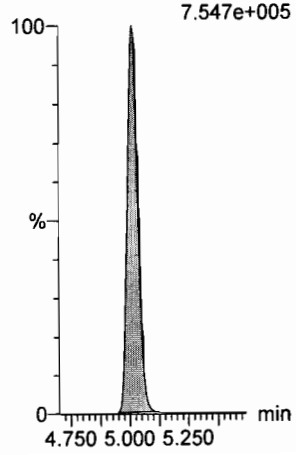
13C2-PFTeDA



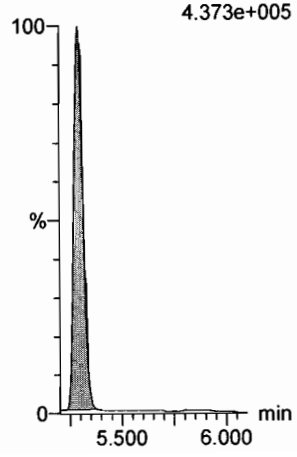
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



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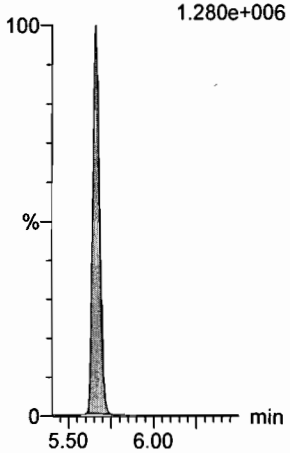
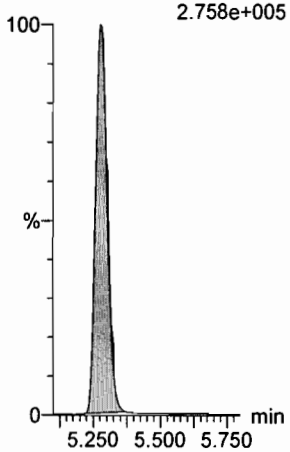
Name: 170810M2_7, Date: 10-Aug-2017, Time: 21:26:22, ID: ST170810M2-6 PFC CS3 17H1005, Description: PFC CS3 17H1005

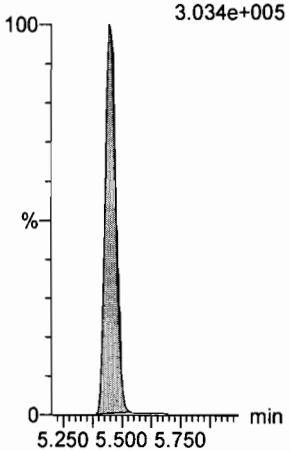
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
1.280e+006



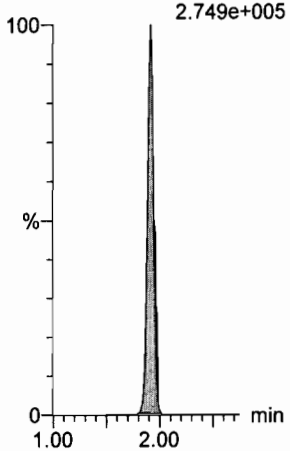
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
2.758e+005



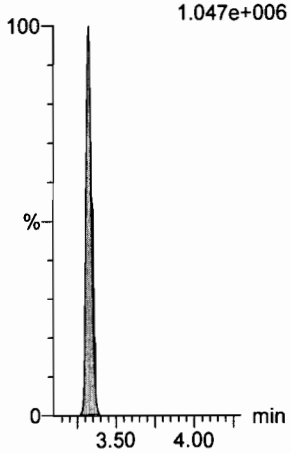
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
3.034e+005



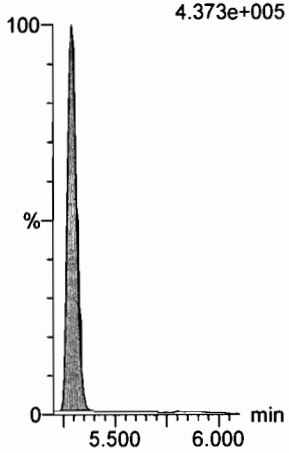
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.749e+005



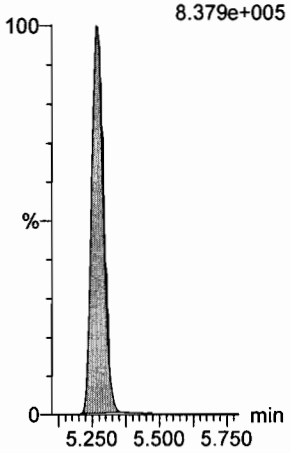
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.047e+006



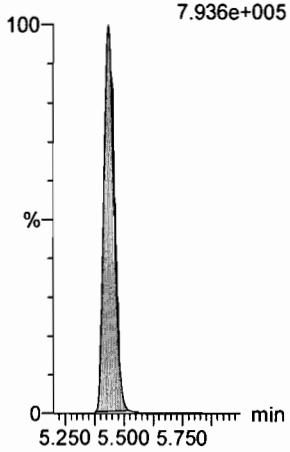
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.373e+005



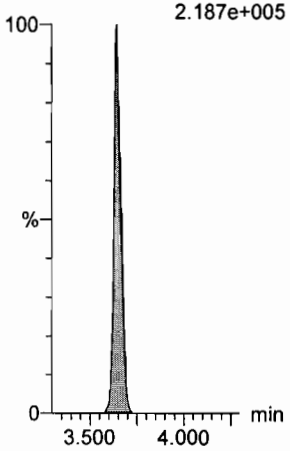
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
8.379e+005



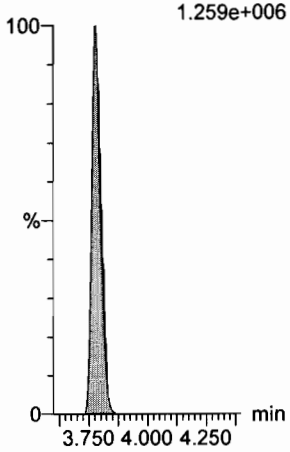
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
7.936e+005



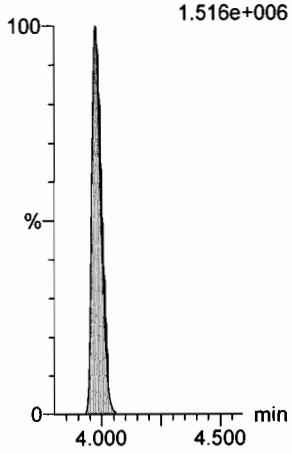
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
2.187e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.259e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.516e+006



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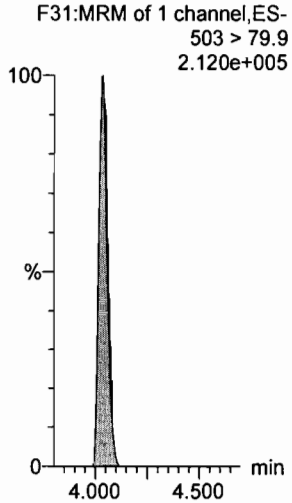
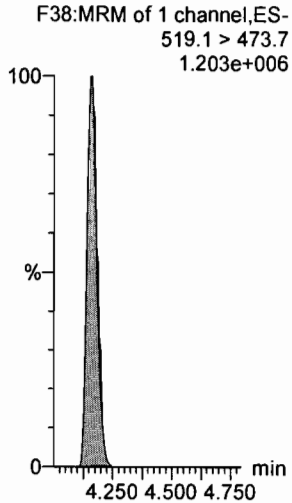
Name: 170810M2_7, Date: 10-Aug-2017, Time: 21:26:22, ID: ST170810M2-6 PFC CS3 17H1005, Description: PFC CS3 17H1005

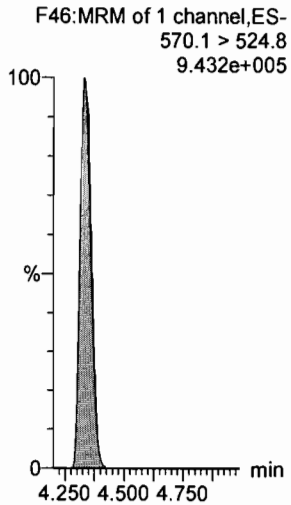
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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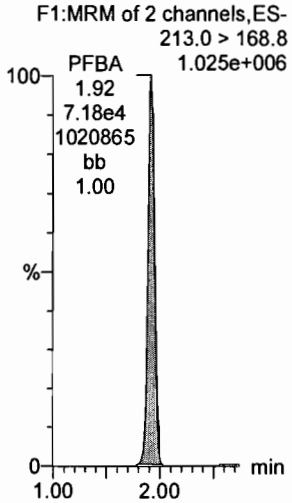
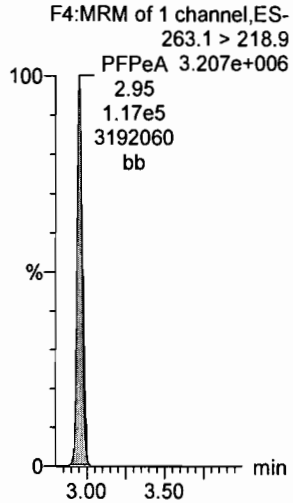
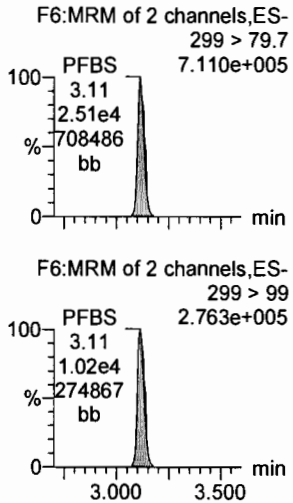
PFBA



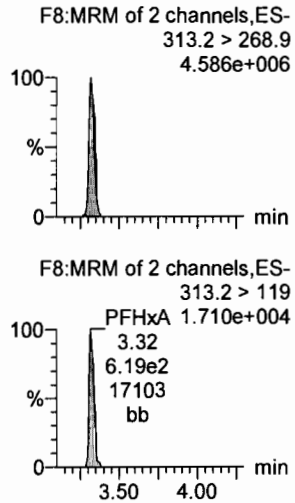
PFPeA



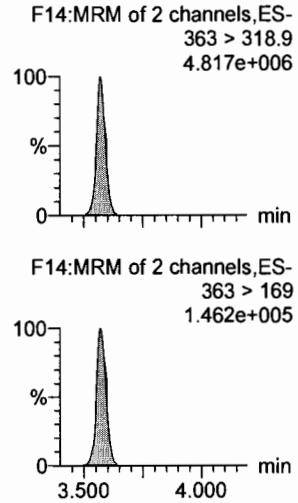
PFBS



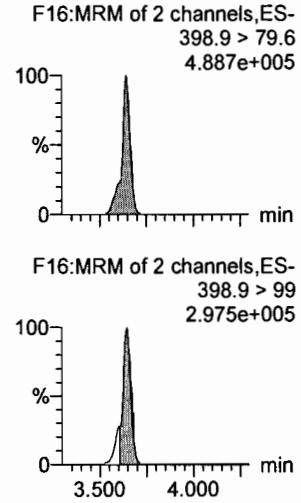
PFHxA



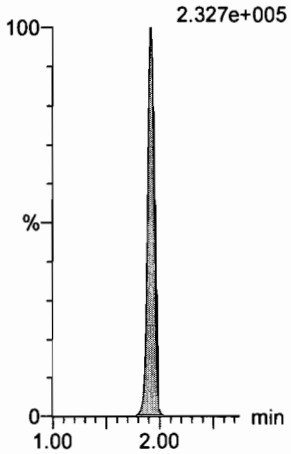
PFHpA



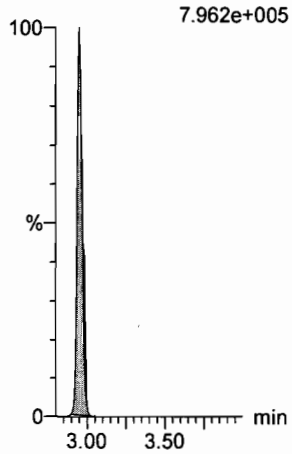
PFHxS



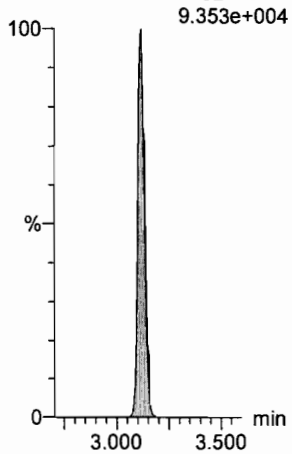
13C3-PFBA



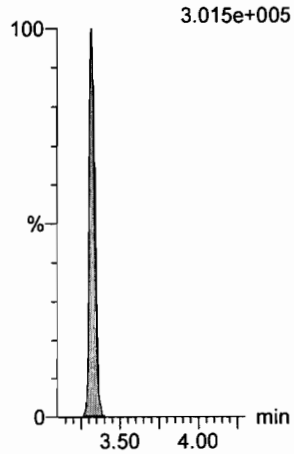
13C3-PFPeA



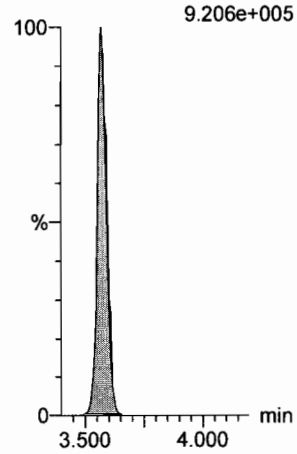
13C3-PFBS



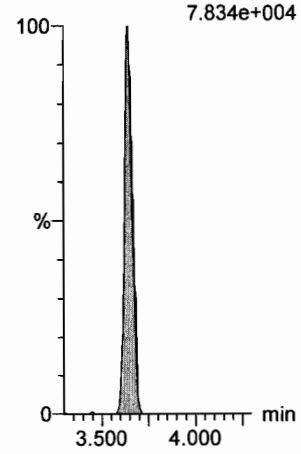
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
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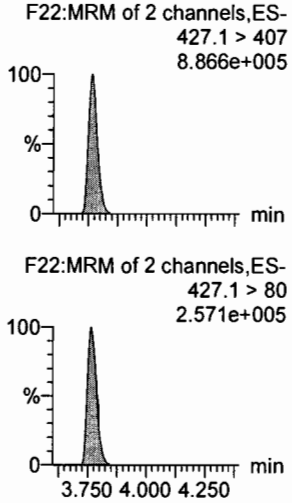
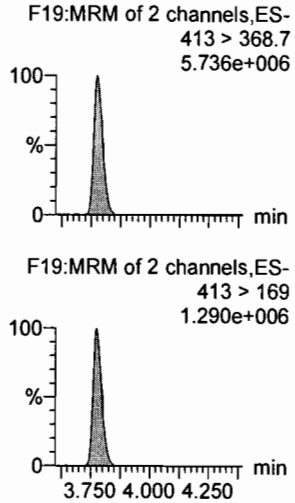
Name: 170810M2_8, Date: 10-Aug-2017, Time: 21:37:09, ID: ST170810M2-7 PFC CS4 17H1018, Description: PFC CS4 17H1018

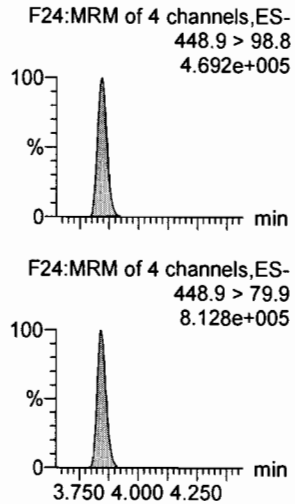
6:2 FTS



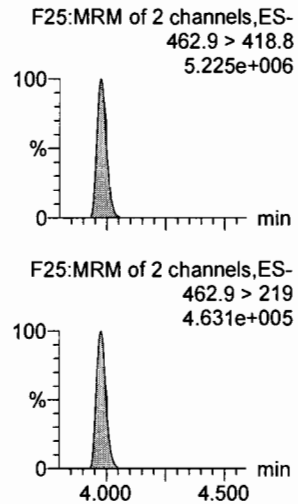
PFOA



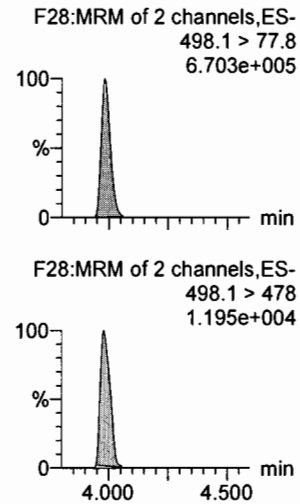
PFHpS



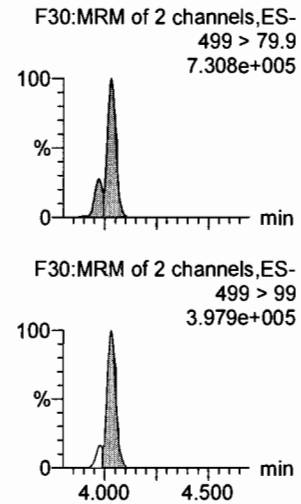
PFNA



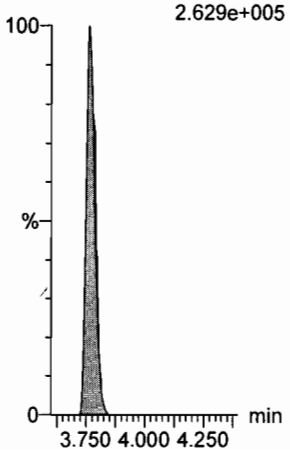
PFOSA



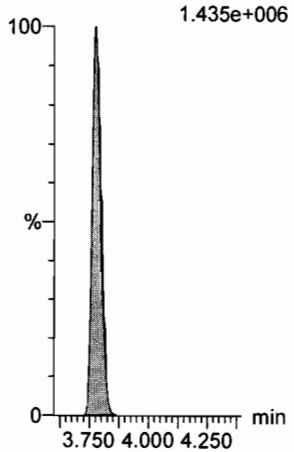
PFOS



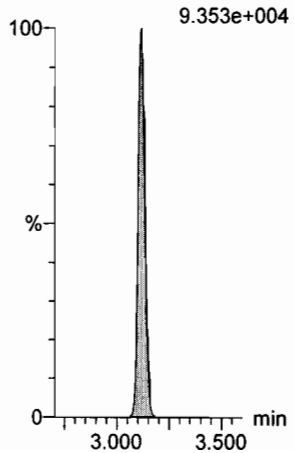
13C2-6:2 FTS



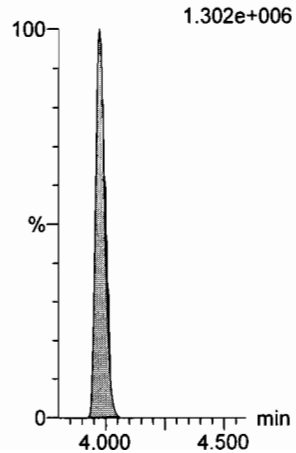
13C2-PFOA



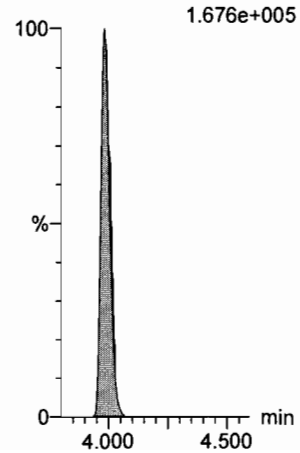
13C3-PFBS



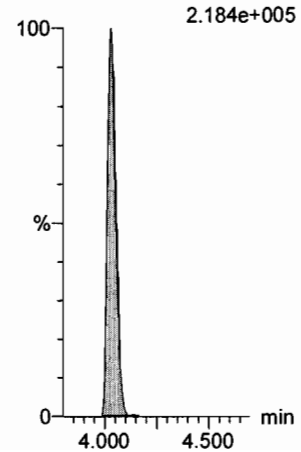
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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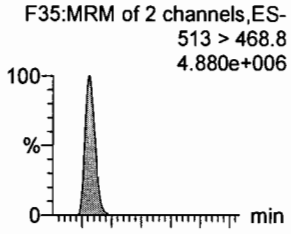
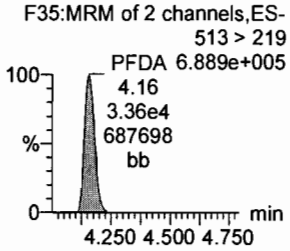
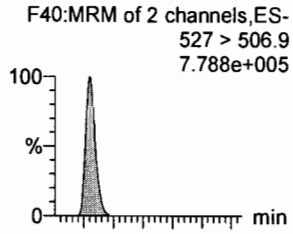
Name: 170810M2_8, Date: 10-Aug-2017, Time: 21:37:09, ID: ST170810M2-7 PFC CS4 17H1018, Description: PFC CS4 17H1018

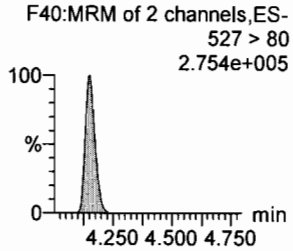
PFDA



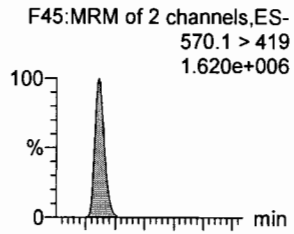


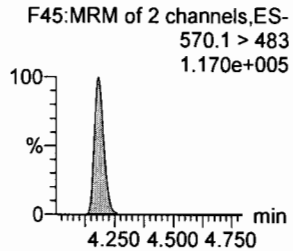
8:2 FTS



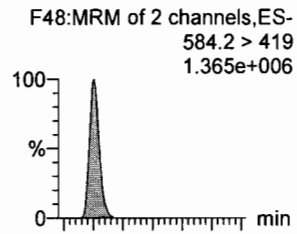


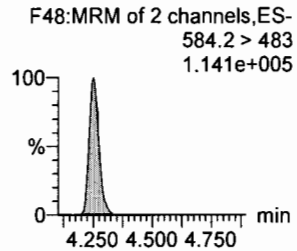
N-MeFOSAA



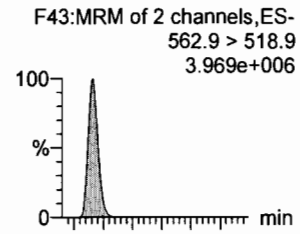


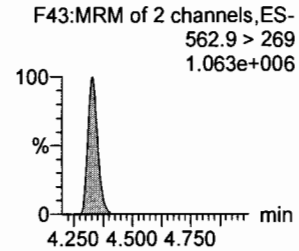
N-EtFOSAA



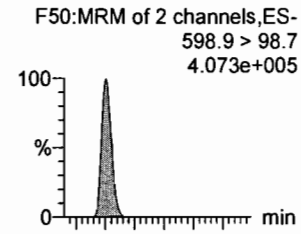


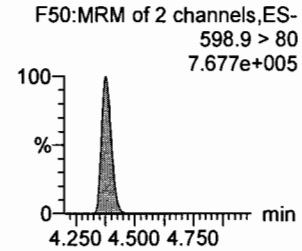
PFUnA



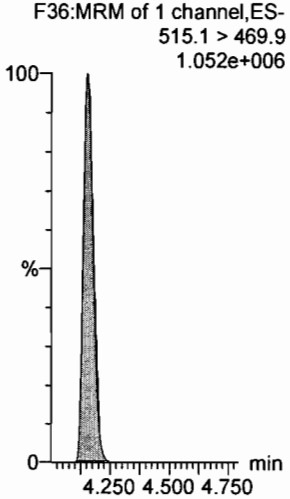


PFDS

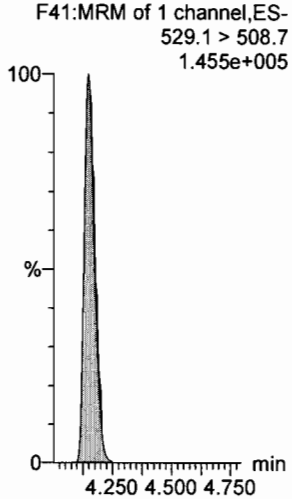




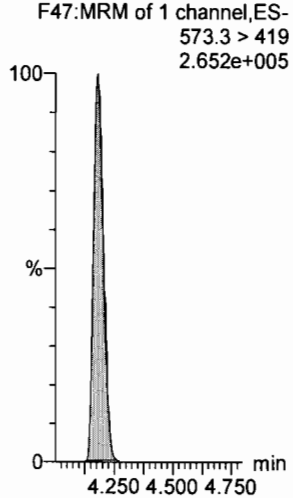
13C2-PFDA



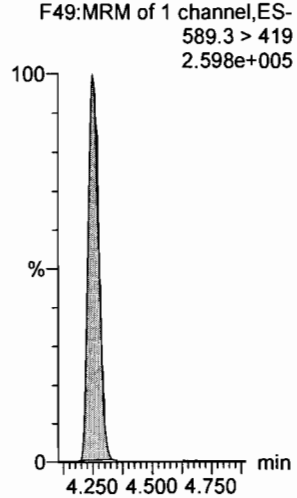
13C2-8:2 FTS



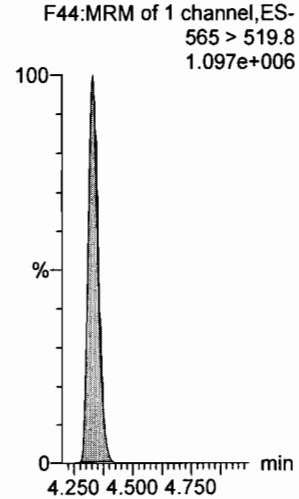
d3-N-MeFOSAA



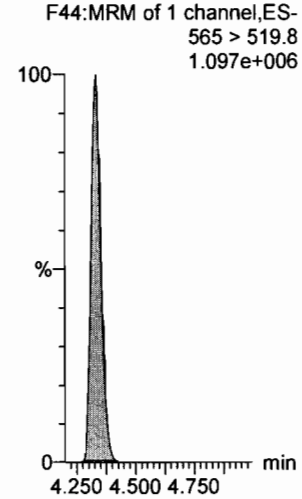
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



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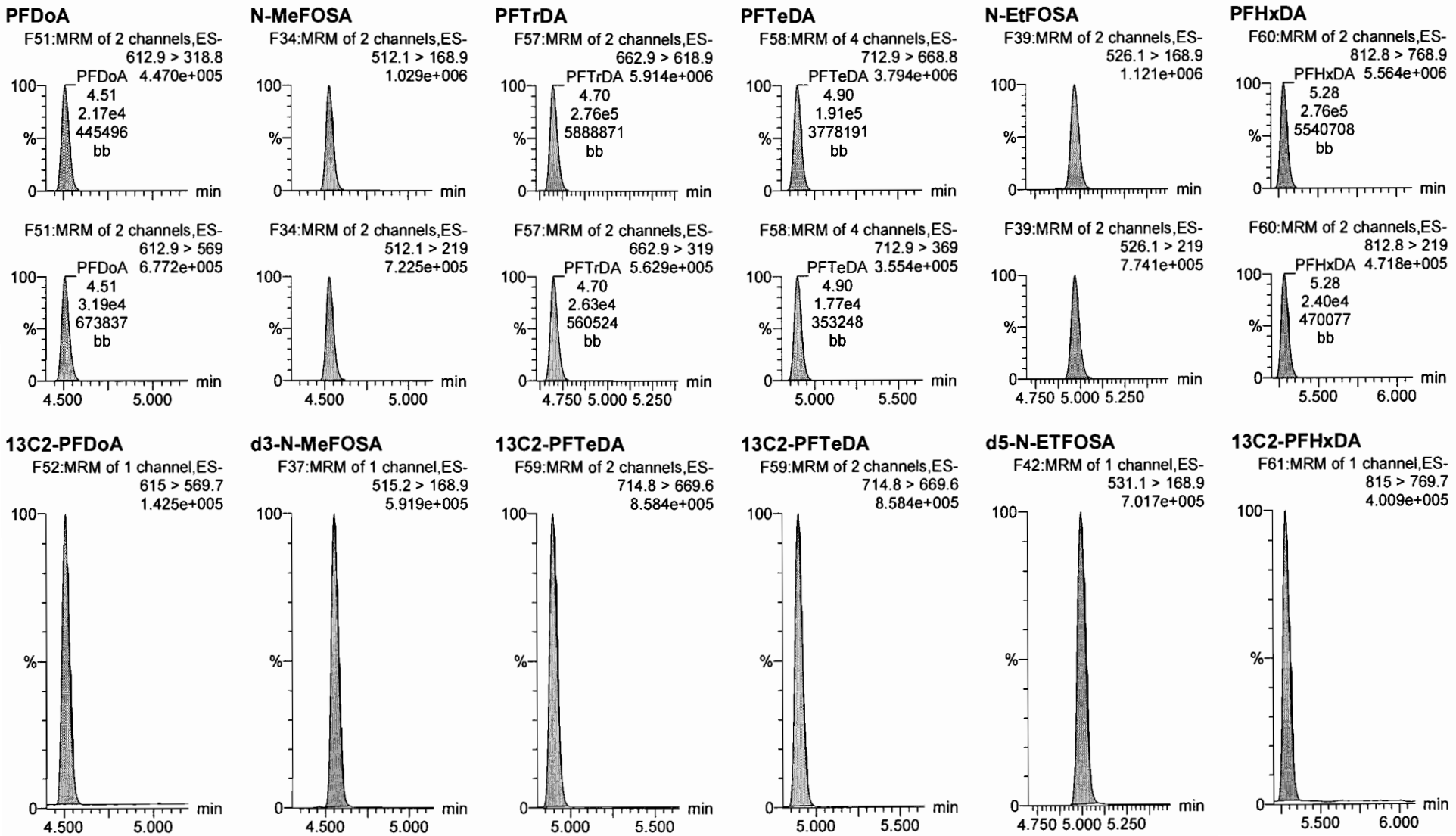
Name: 170810M2_8, Date: 10-Aug-2017, Time: 21:37:09, ID: ST170810M2-7 PFC CS4 17H1018, Description: PFC CS4 17H1018



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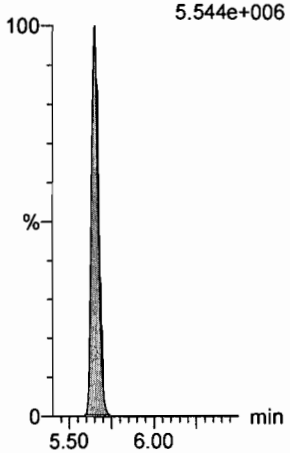
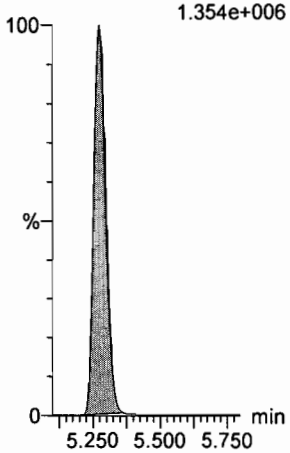
Name: 170810M2_8, Date: 10-Aug-2017, Time: 21:37:09, ID: ST170810M2-7 PFC CS4 17H1018, Description: PFC CS4 17H1018

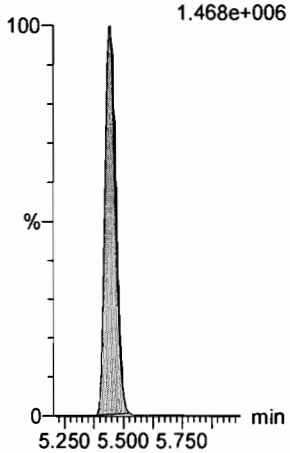
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
5.544e+006



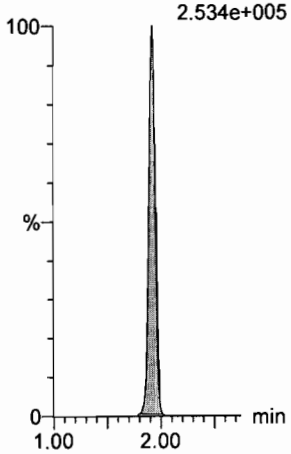
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
1.354e+006



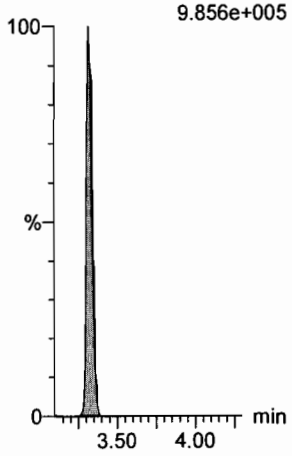
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
1.468e+006



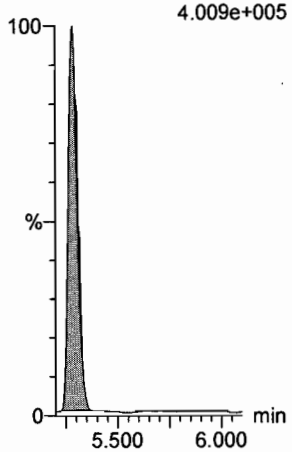
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.534e+005



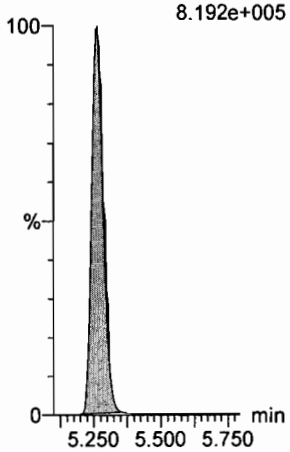
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
9.856e+005



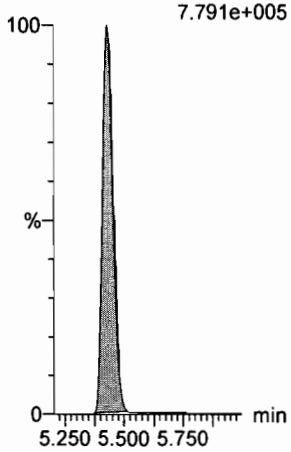
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.009e+005



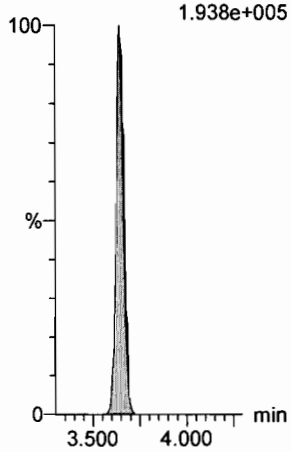
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
8.192e+005



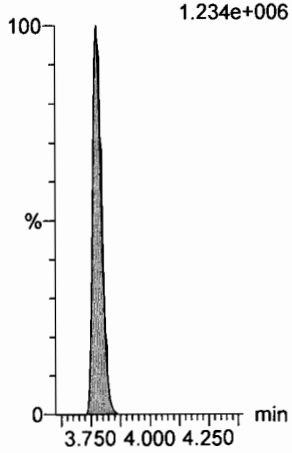
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
7.791e+005



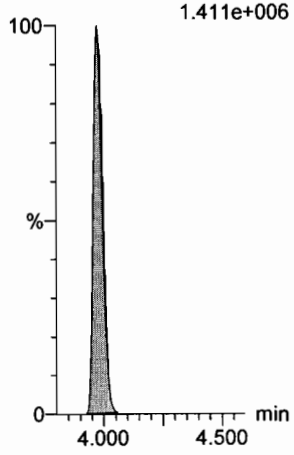
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.938e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.234e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.411e+006



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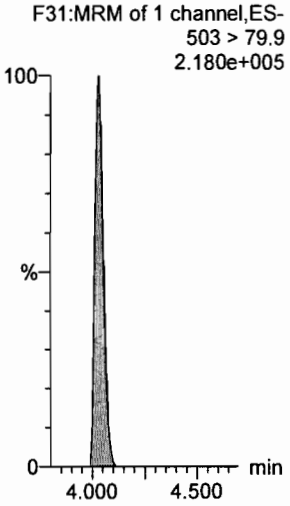
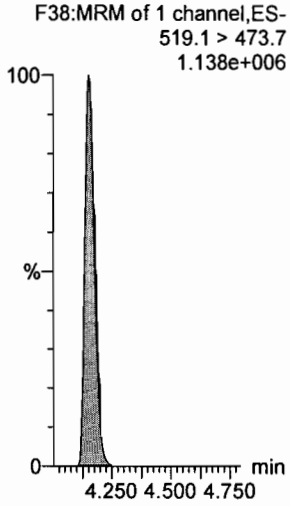
Name: 170810M2_8, Date: 10-Aug-2017, Time: 21:37:09, ID: ST170810M2-7 PFC CS4 17H1018, Description: PFC CS4 17H1018

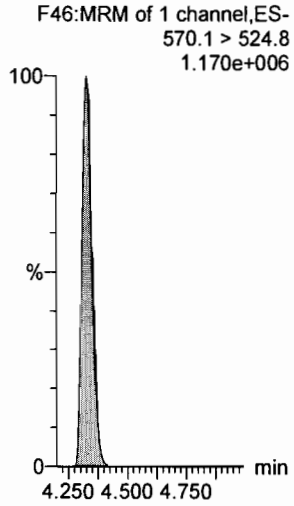
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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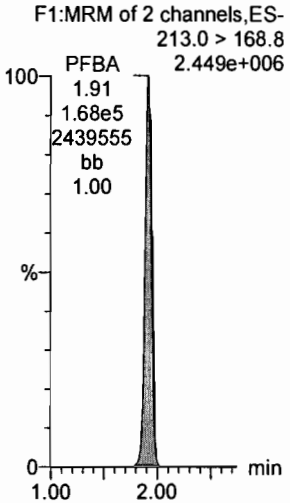
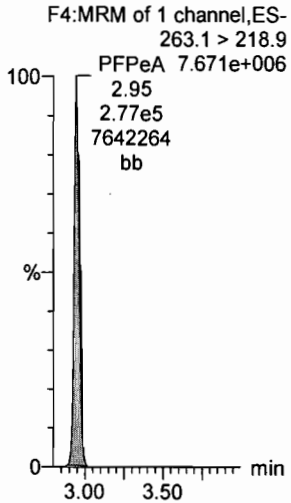
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_9, Date: 10-Aug-2017, Time: 21:47:47, ID: ST170810M2-8 PFC CS5 17H1019, Description: PFC CS5 17H1019

PFBA



PFPeA



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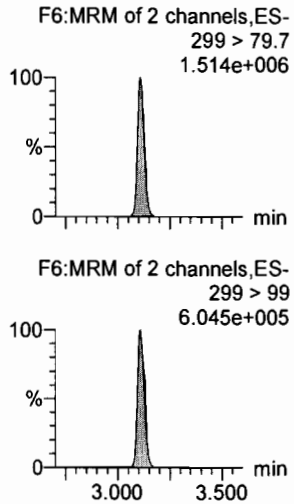
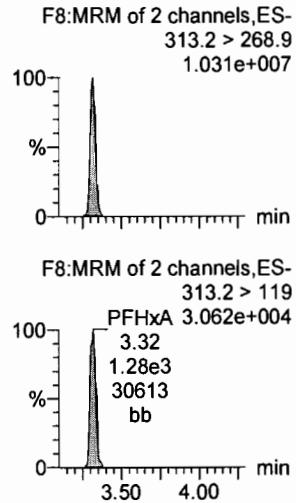
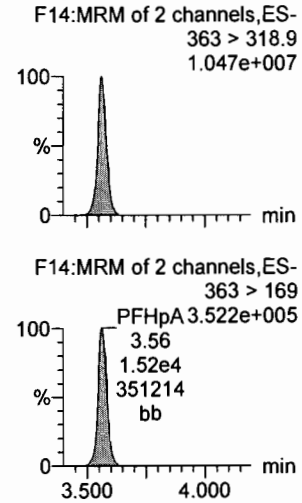


PFHxA



PFHpA



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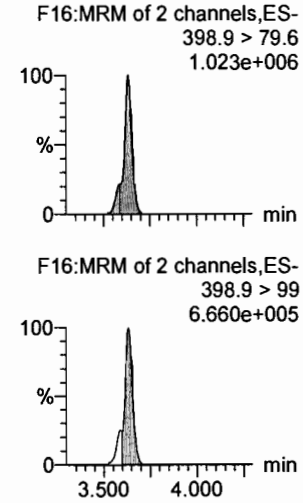
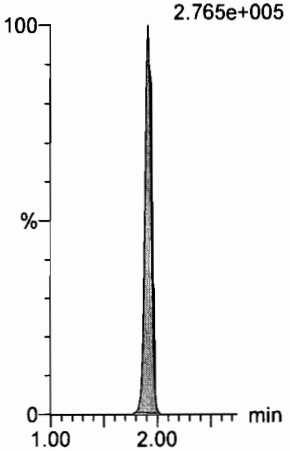
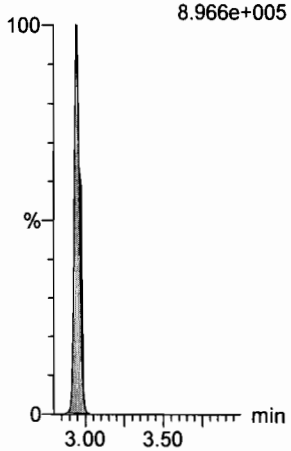


13C3-PFBA



13C3-PFPeA



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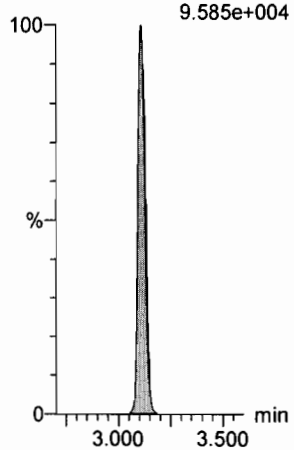
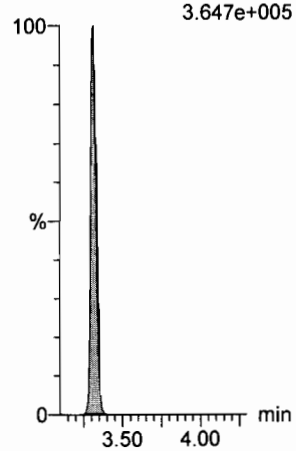
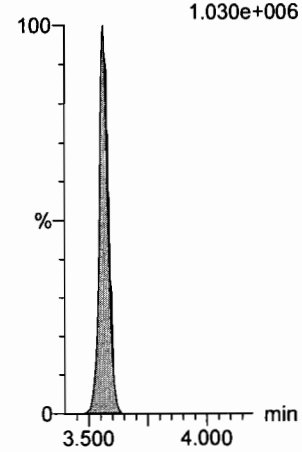


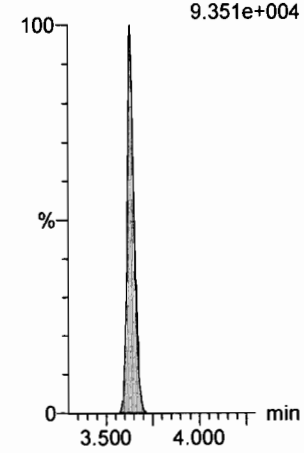
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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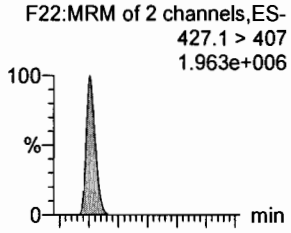
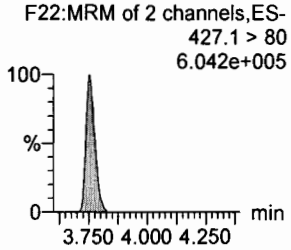
Last Altered: Friday, August 11, 2017 09:08:45 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

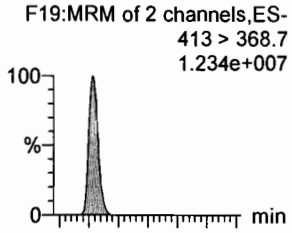
Name: 170810M2_9, Date: 10-Aug-2017, Time: 21:47:47, ID: ST170810M2-8 PFC CS5 17H1019, Description: PFC CS5 17H1019

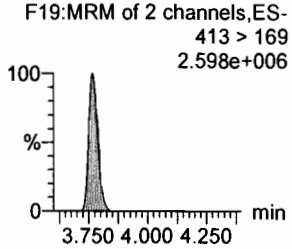
6:2 FTS



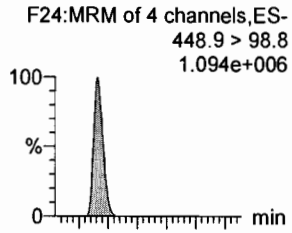


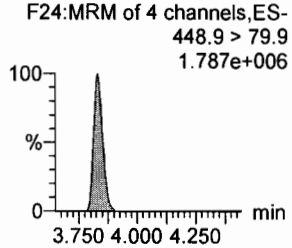
PFOA





PFHpS





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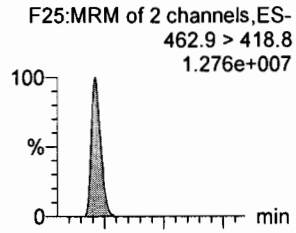
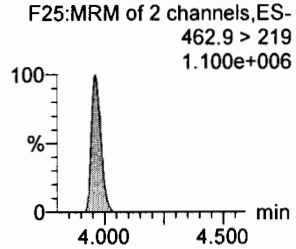
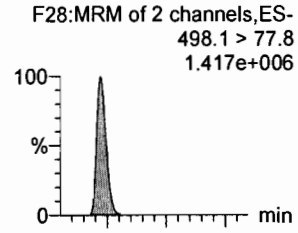
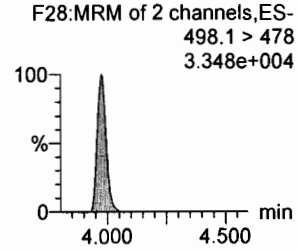




PFOSA





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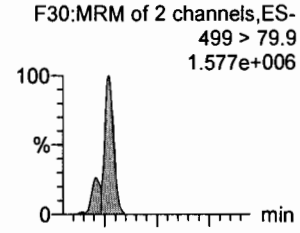
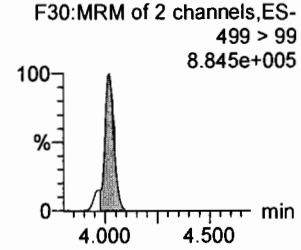
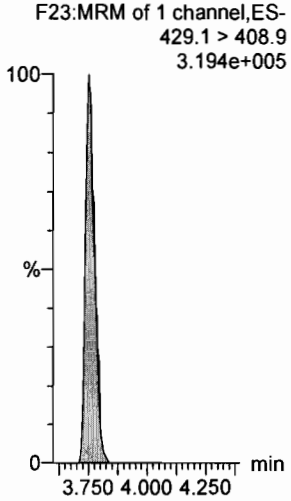
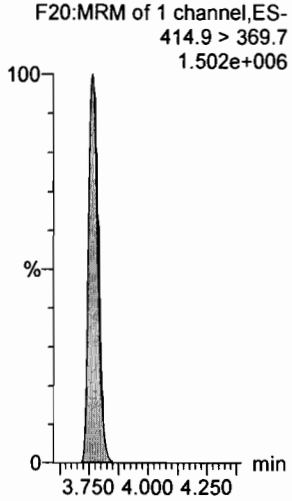




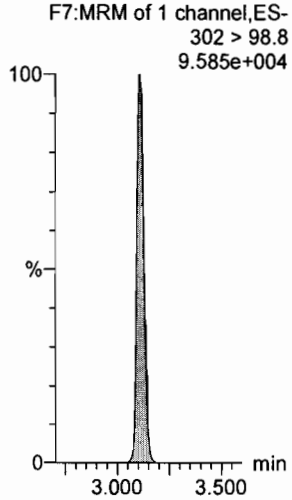
13C2-6:2 FTS



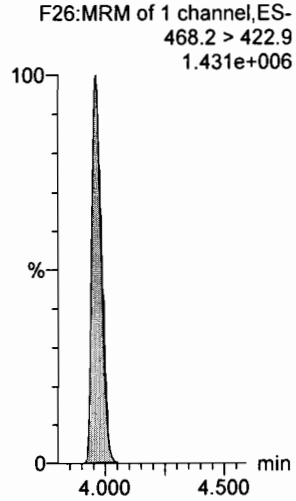
13C2-PFOA



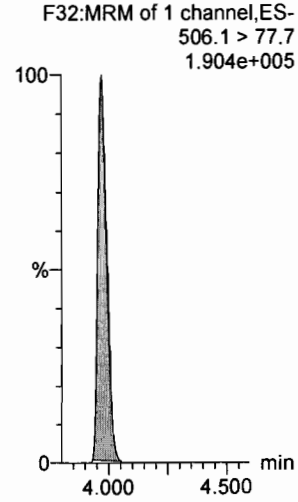
13C3-PFBS



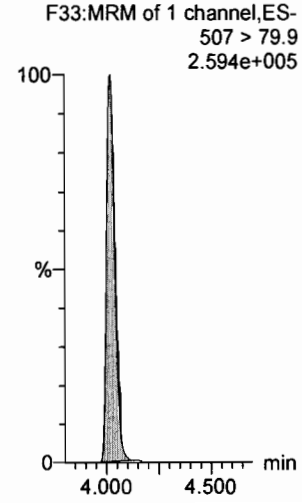
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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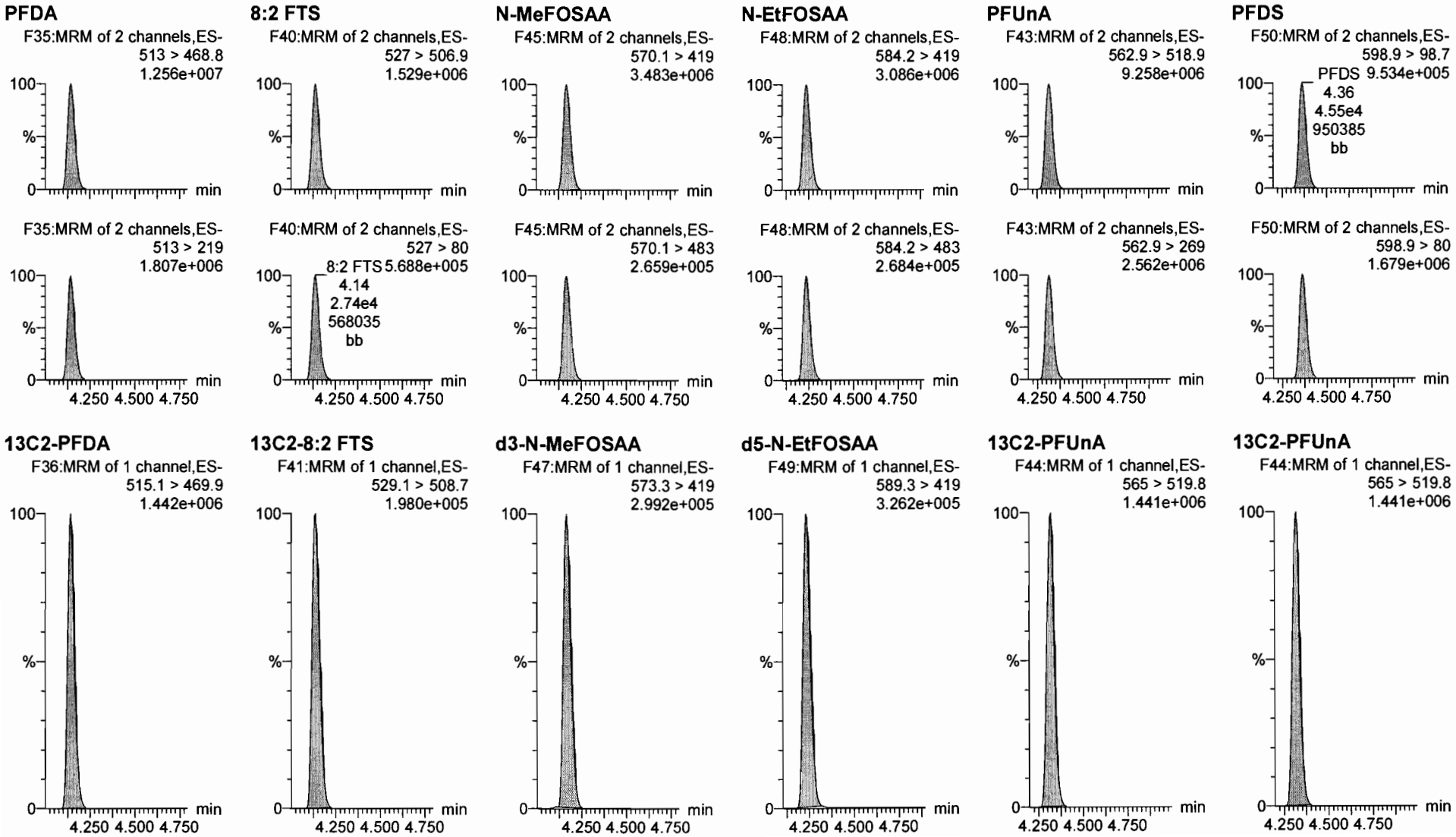
Printed: Friday, August 11, 2017 09:09:53 Pacific Daylight Time

Name: 170810M2_9, Date: 10-Aug-2017, Time: 21:47:47, ID: ST170810M2-8 PFC CS5 17H1019, Description: PFC CS5 17H1019



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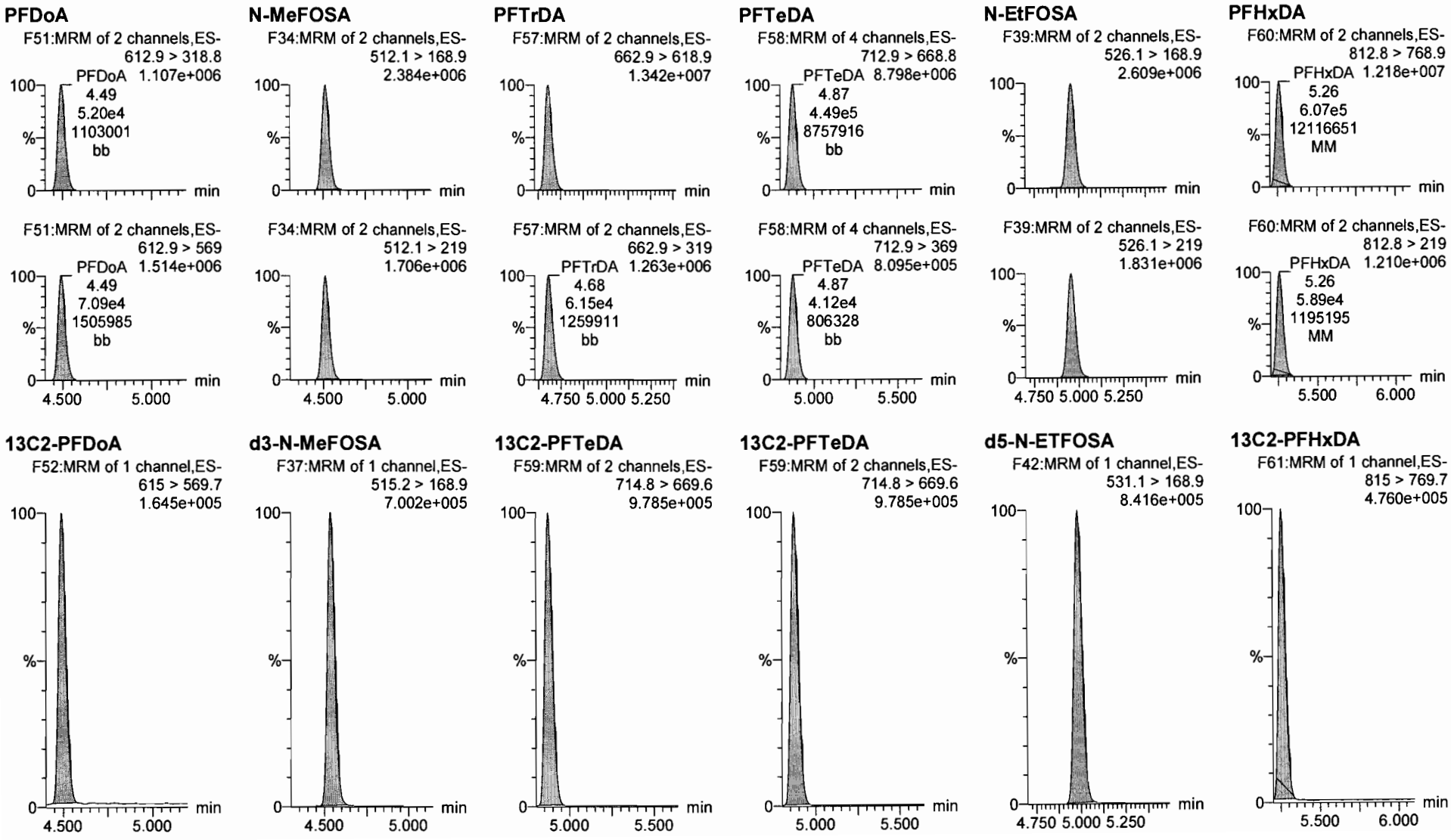
Name: 170810M2_9, Date: 10-Aug-2017, Time: 21:47:47, ID: ST170810M2-8 PFC CS5 17H1019, Description: PFC CS5 17H1019



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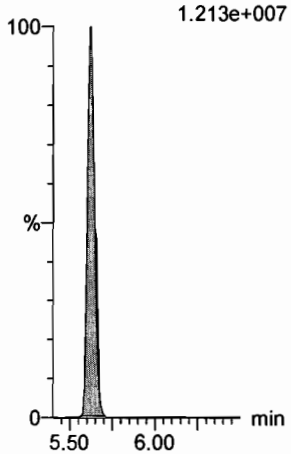
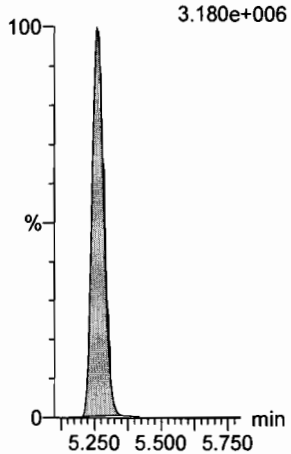
Name: 170810M2_9, Date: 10-Aug-2017, Time: 21:47:47, ID: ST170810M2-8 PFC CS5 17H1019, Description: PFC CS5 17H1019

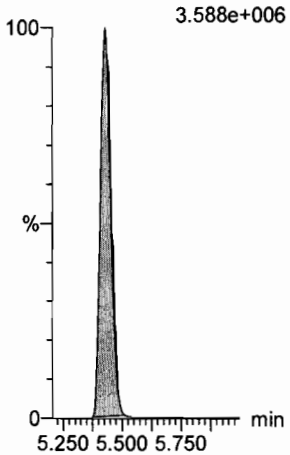
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
1.213e+007



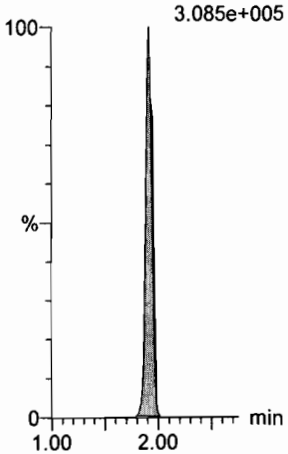
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
3.180e+006



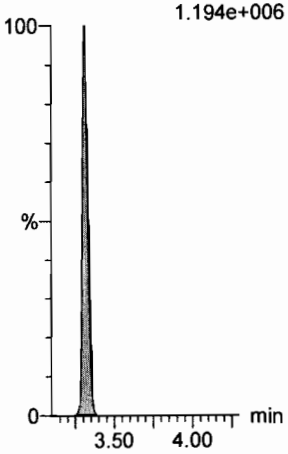
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
3.588e+006



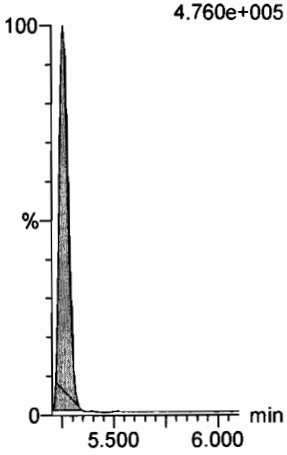
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
3.085e+005



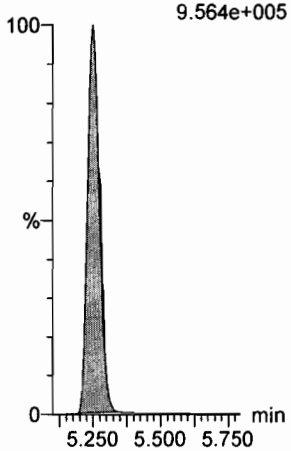
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.194e+006



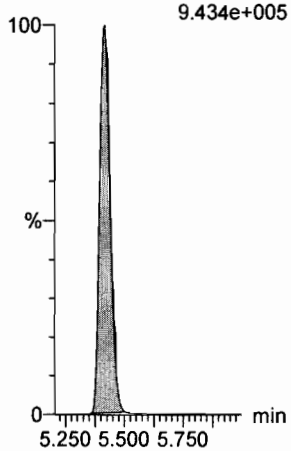
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.760e+005



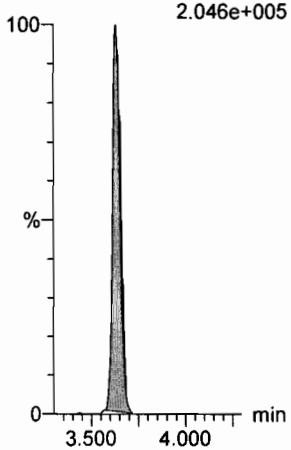
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
9.564e+005



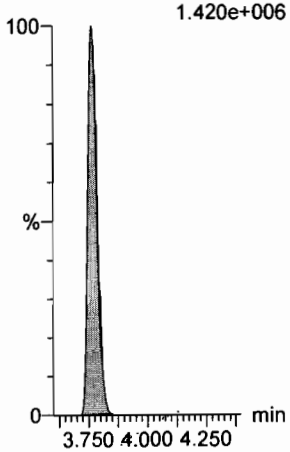
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
9.434e+005



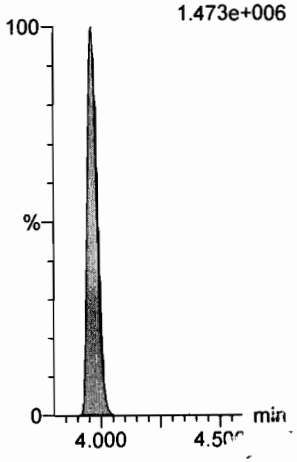
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
2.046e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.420e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.473e+006



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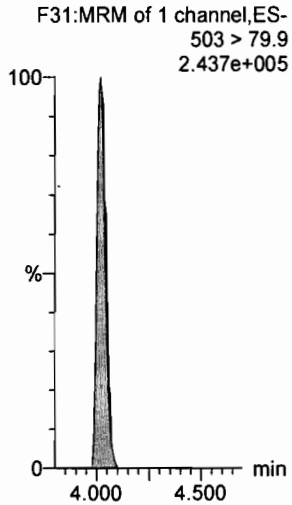
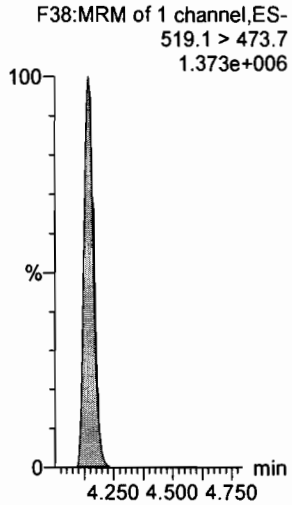
Name: 170810M2_9, Date: 10-Aug-2017, Time: 21:47:47, ID: ST170810M2-8 PFC CS5 17H1019, Description: PFC CS5 17H1019

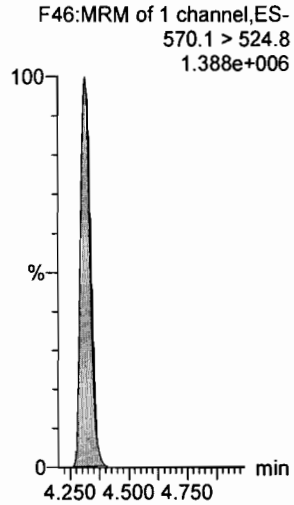
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

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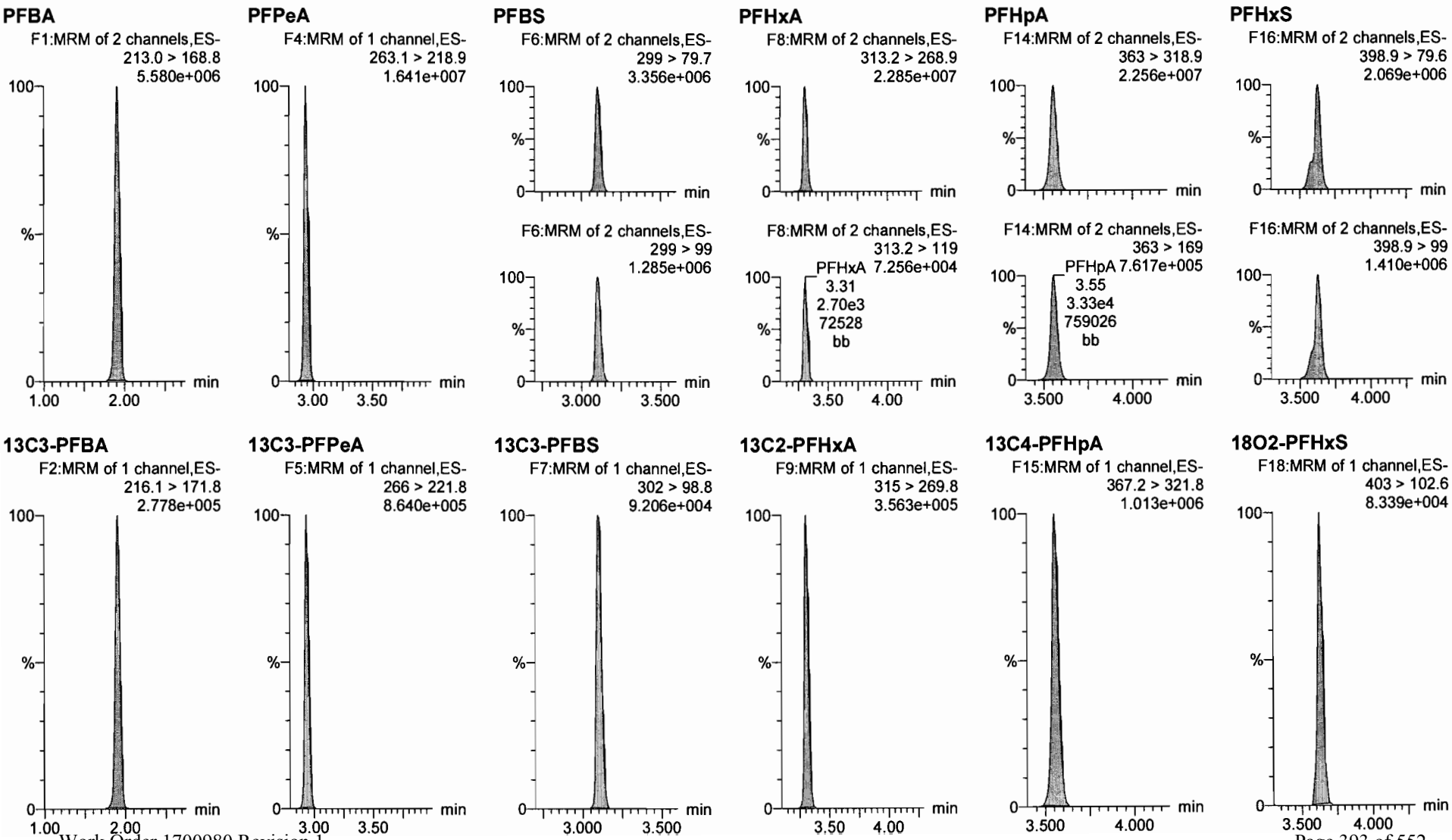
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-10-17.mdb 11 Aug 2017 08:55:25
Calibration: 11 Aug 2017 09:12:09

Name: 170810M2_10, Date: 10-Aug-2017, Time: 21:58:34, ID: ST170810M2-9 PFC CS6 17H1013, Description: PFC CS6 17H1013



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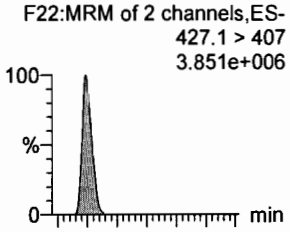
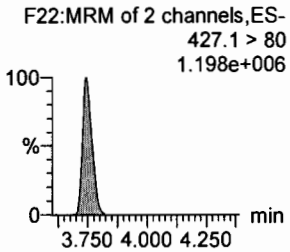
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:08 Pacific Daylight Time

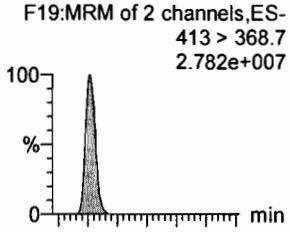
Name: 170810M2_10, Date: 10-Aug-2017, Time: 21:58:34, ID: ST170810M2-9 PFC CS6 17H1013, Description: PFC CS6 17H1013

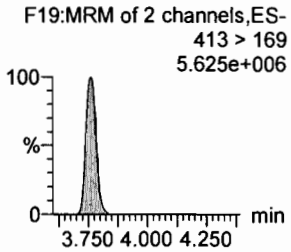
6:2 FTS



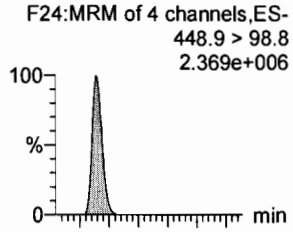


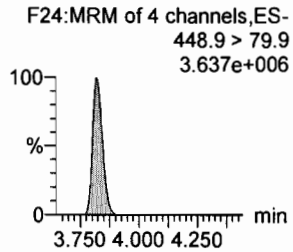
PFOA



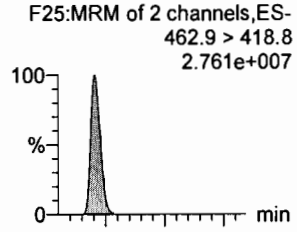


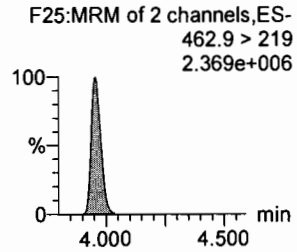
PFHpS



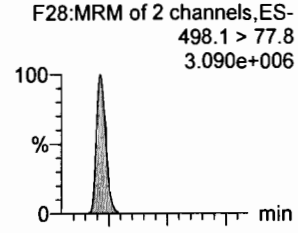


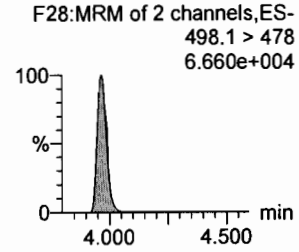
PFNA



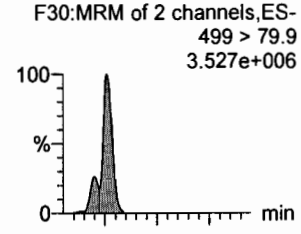


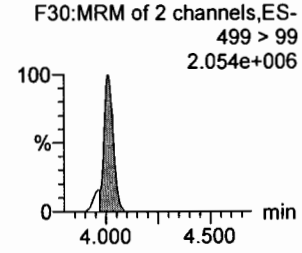
PFOSA



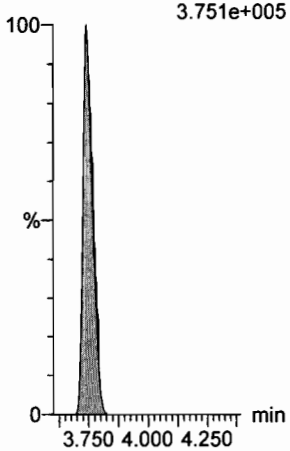


PFOS

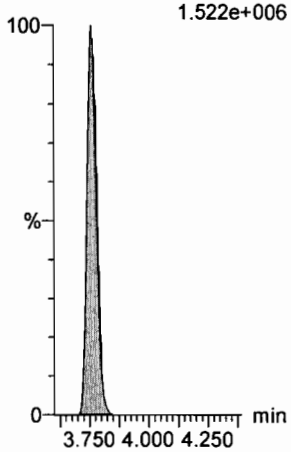




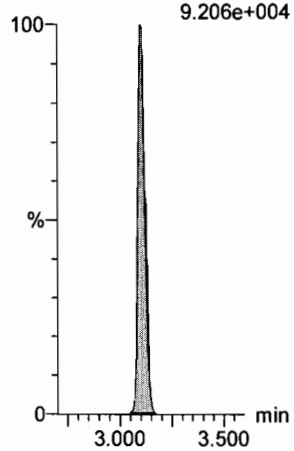
13C2-6:2 FTS



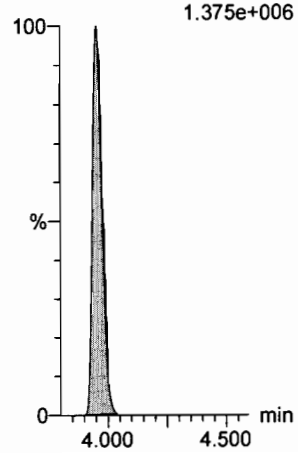
13C2-PFOA



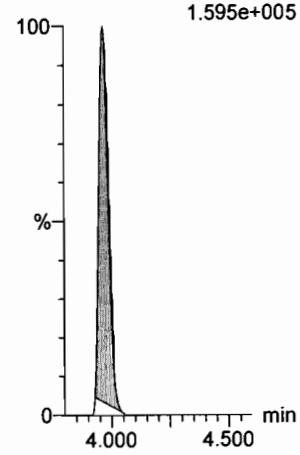
13C3-PFBS



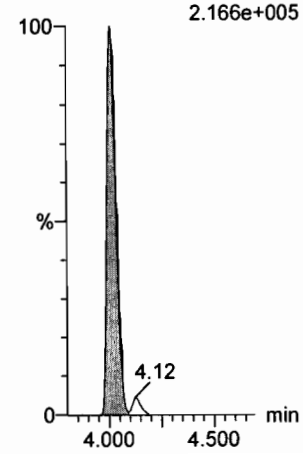
13C5-PFNA



13C8-PFOSA



13C8-PFOS



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
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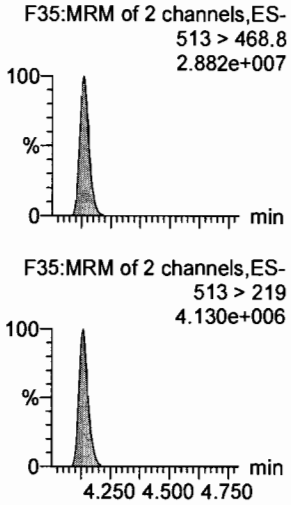
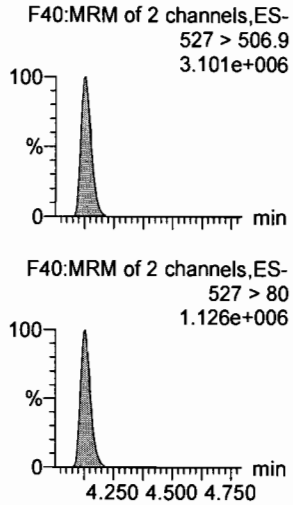
Name: 170810M2_10, Date: 10-Aug-2017, Time: 21:58:34, ID: ST170810M2-9 PFC CS6 17H1013, Description: PFC CS6 17H1013

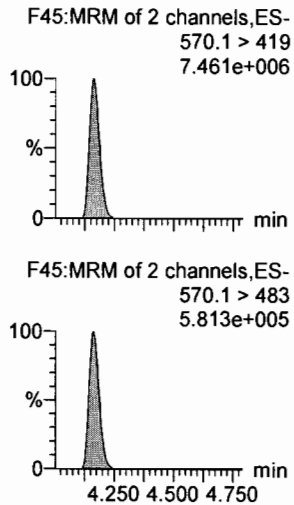
PFDA



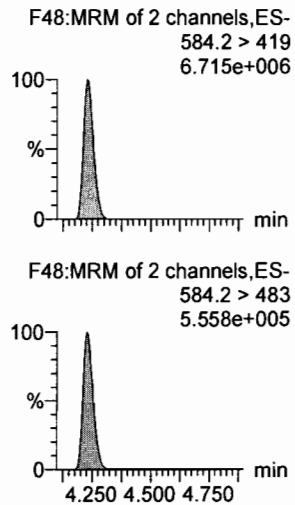
8:2 FTS



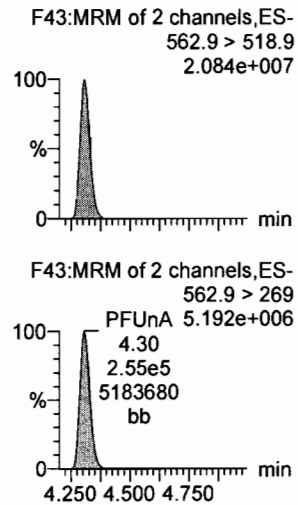
N-MeFOSAA



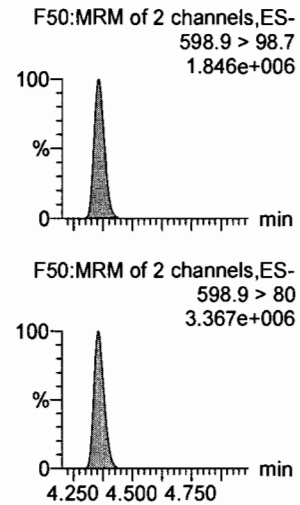
N-EtFOSAA



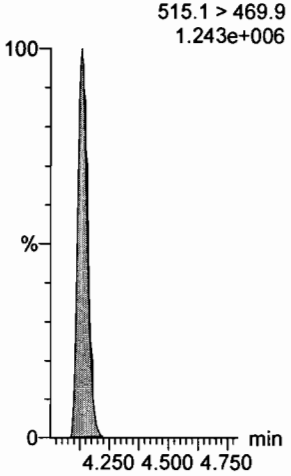
PFUnA



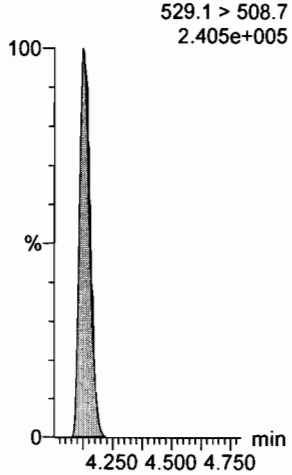
PFDS



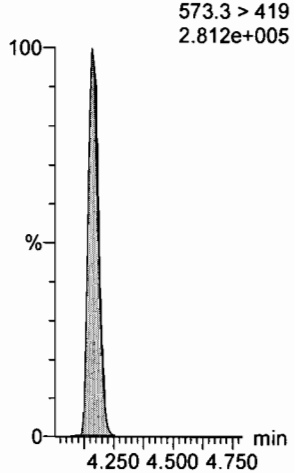
13C2-PFDA



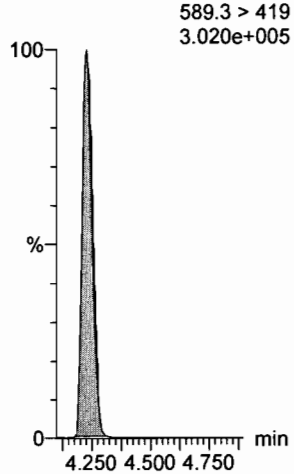
13C2-8:2 FTS



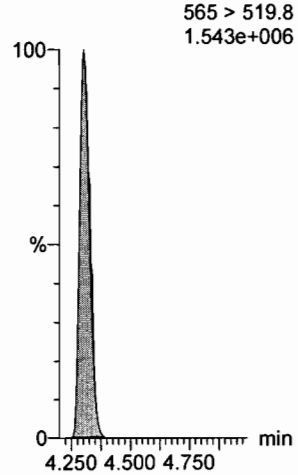
d3-N-MeFOSAA



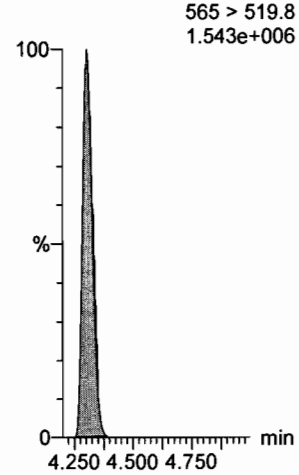
d5-N-EtFOSAA



13C2-PFUnA



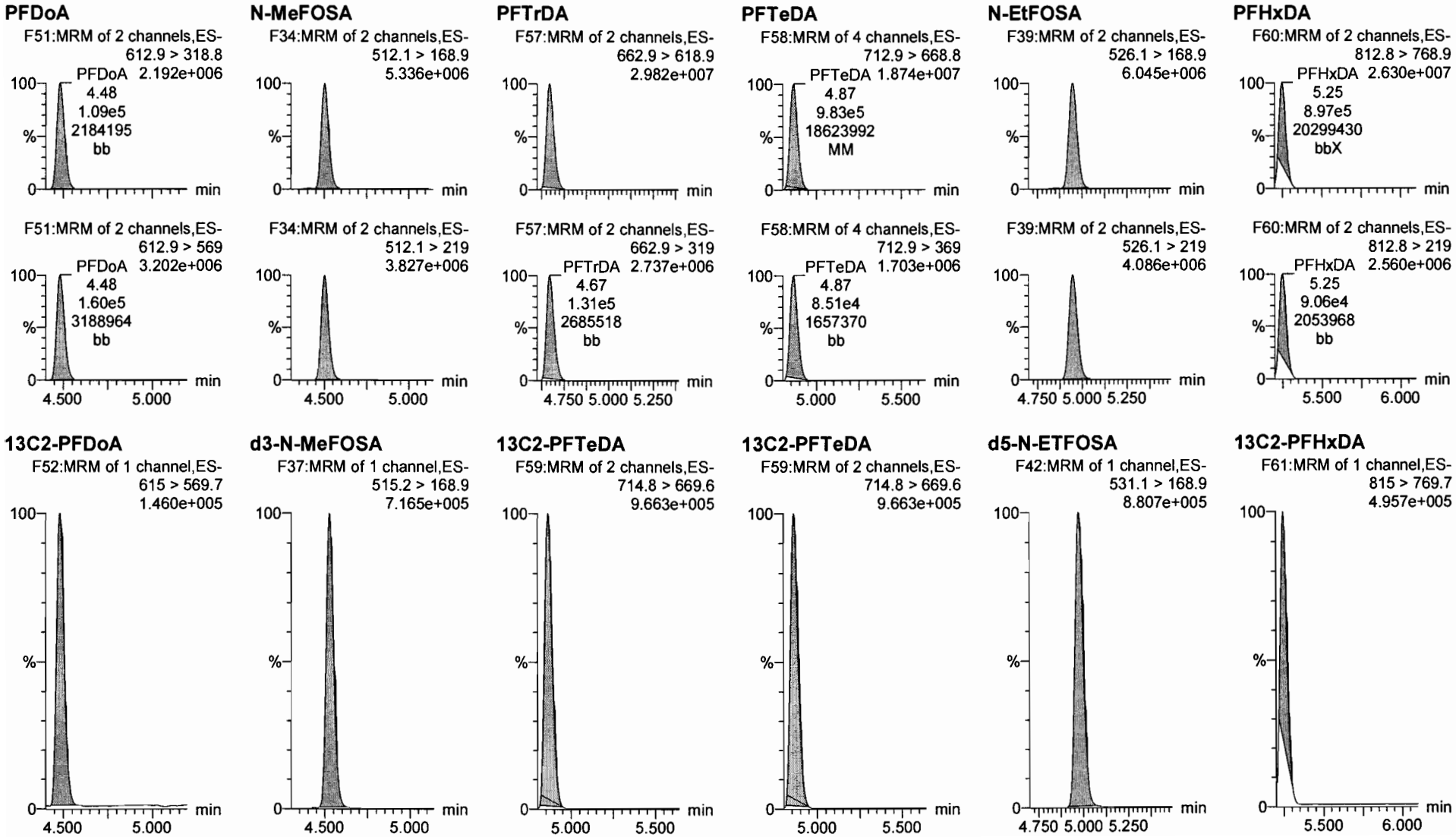
13C2-PFUnA



Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:08 Pacific Daylight Time

Name: 170810M2_10, Date: 10-Aug-2017, Time: 21:58:34, ID: ST170810M2-9 PFC CS6 17H1013, Description: PFC CS6 17H1013



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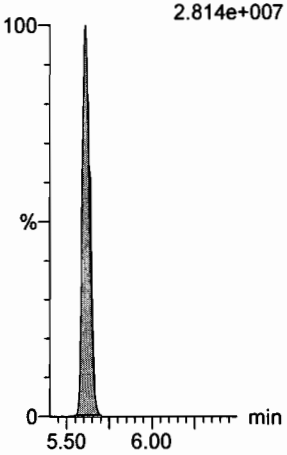
Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

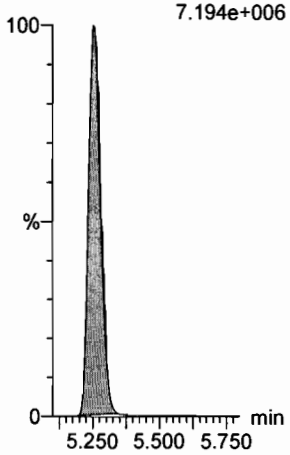
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:08 Pacific Daylight Time

Name: 170810M2_10, Date: 10-Aug-2017, Time: 21:58:34, ID: ST170810M2-9 PFC CS6 17H1013, Description: PFC CS6 17H1013

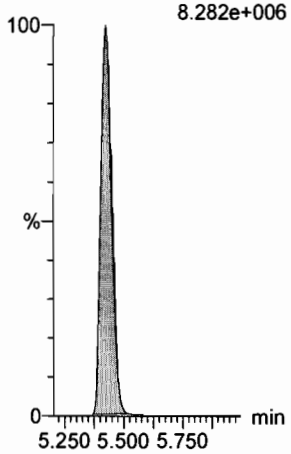
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
2.814e+007



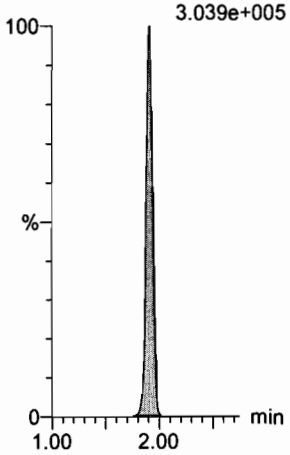
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
7.194e+006



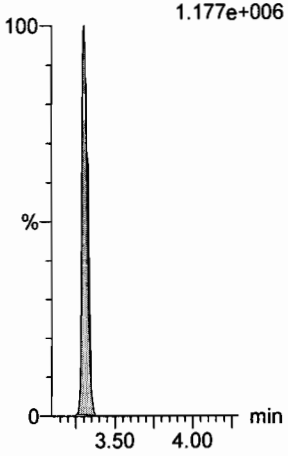
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
8.282e+006



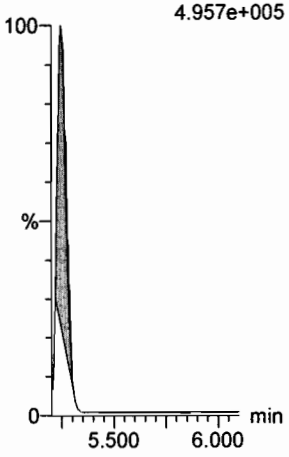
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
3.039e+005



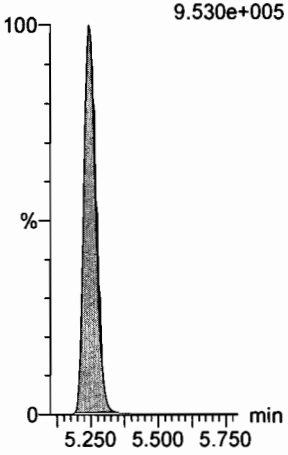
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.177e+006



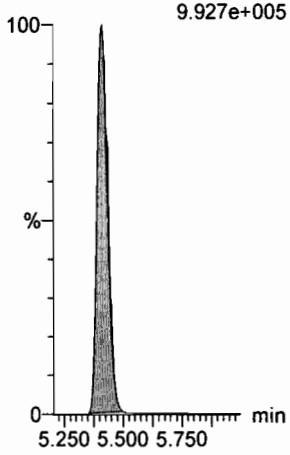
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.957e+005



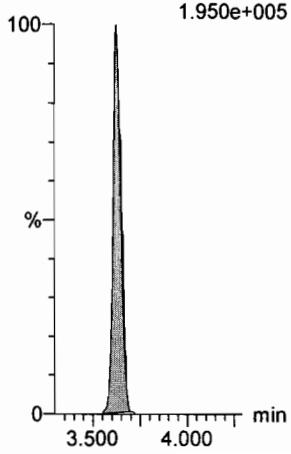
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
9.530e+005



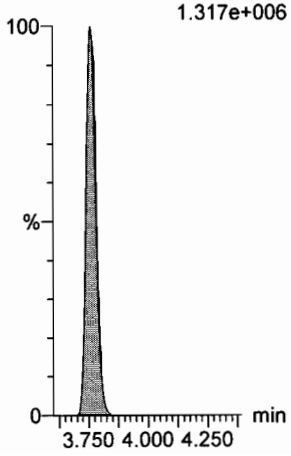
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
9.927e+005



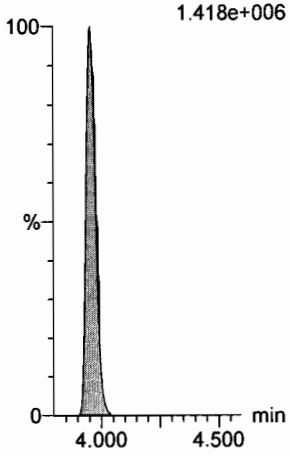
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.950e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.317e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.418e+006

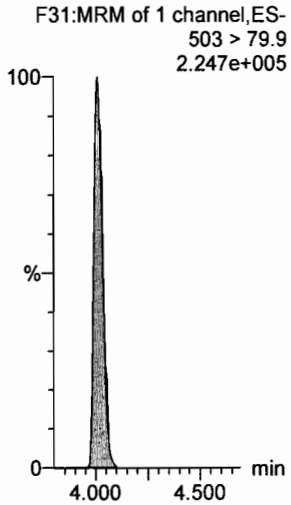


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

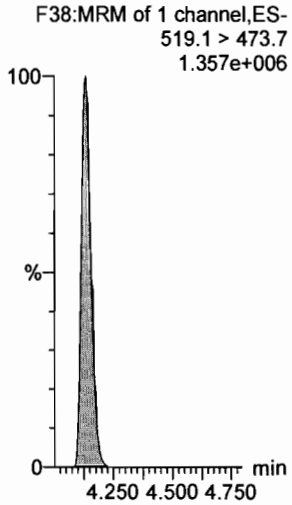
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:08 Pacific Daylight Time

Name: 170810M2_10, Date: 10-Aug-2017, Time: 21:58:34, ID: ST170810M2-9 PFC CS6 17H1013, Description: PFC CS6 17H1013

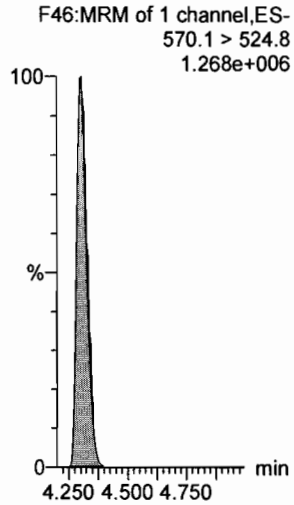
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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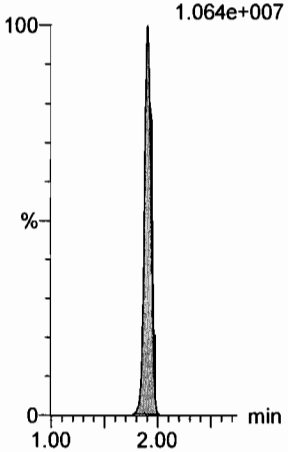
Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:16 Pacific Daylight Time

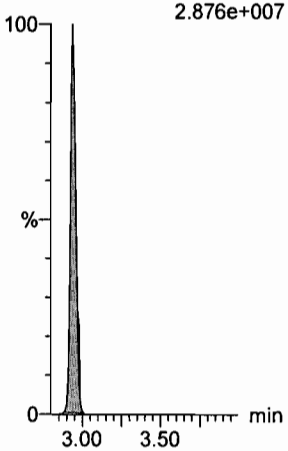
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-10-17.mdb 11 Aug 2017 08:55:25
Calibration: 11 Aug 2017 09:12:09

Name: 170810M2_11, Date: 10-Aug-2017, Time: 22:09:12, ID: ST170810M2-10 PFC CS7 17H1012, Description: PFC CS7 17H1012

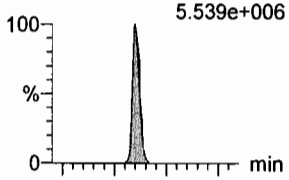
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
1.064e+007



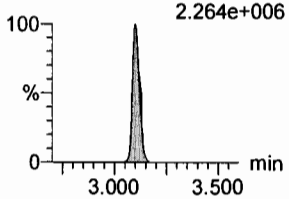
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
2.876e+007



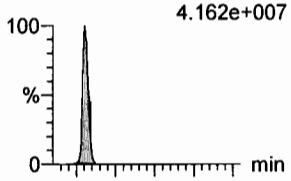
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
5.539e+006



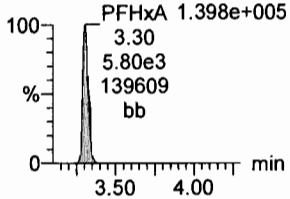
F6:MRM of 2 channels,ES-
299 > 99
2.264e+006



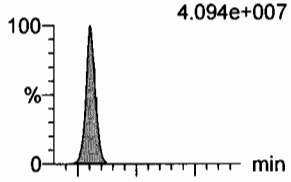
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
4.162e+007



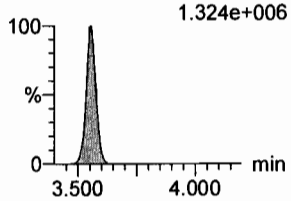
F8:MRM of 2 channels,ES-
313.2 > 119
PFHxA 1.398e+005
3.30
5.80e3
139609
bb



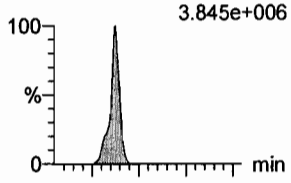
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
4.094e+007



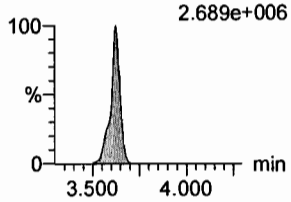
F14:MRM of 2 channels,ES-
363 > 169
1.324e+006



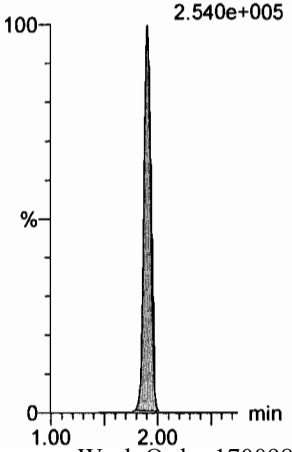
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
3.845e+006



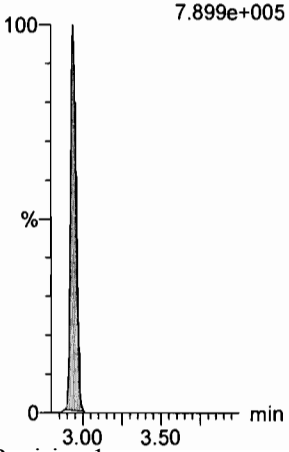
F16:MRM of 2 channels,ES-
398.9 > 99
2.689e+006



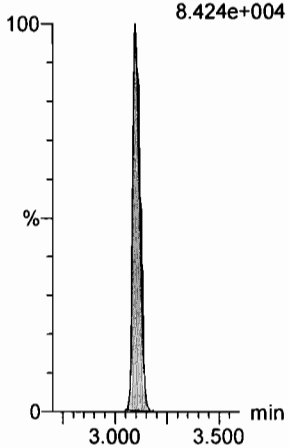
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.540e+005



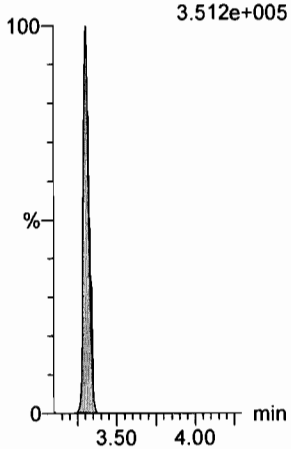
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
7.899e+005



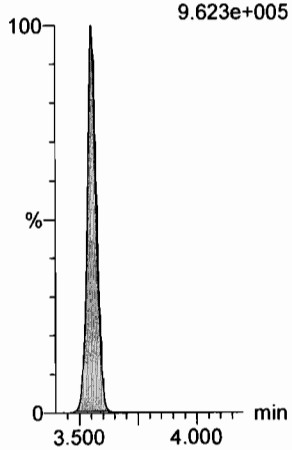
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
8.424e+004



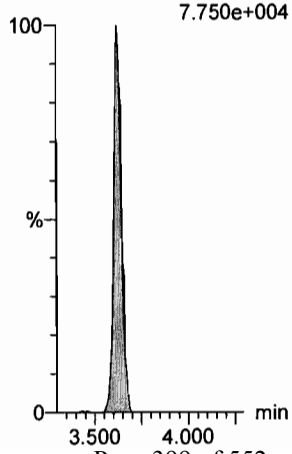
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.512e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
9.623e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
7.750e+004



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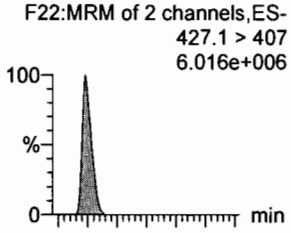
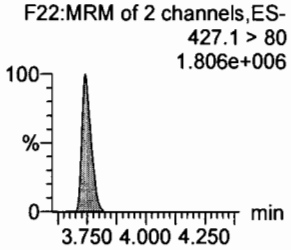
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:16 Pacific Daylight Time

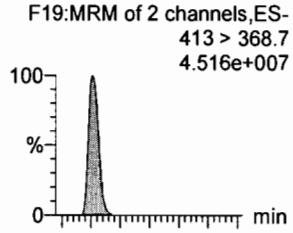
Name: 170810M2_11, Date: 10-Aug-2017, Time: 22:09:12, ID: ST170810M2-10 PFC CS7 17H1012, Description: PFC CS7 17H1012

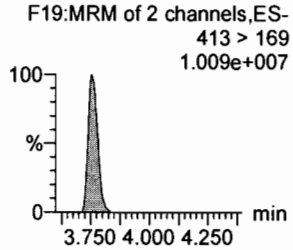
6:2 FTS



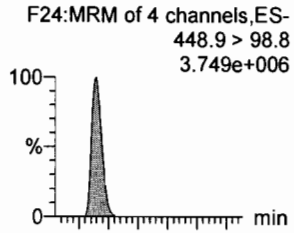


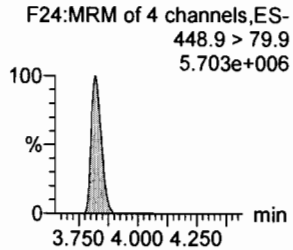
PFOA



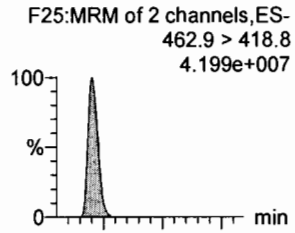


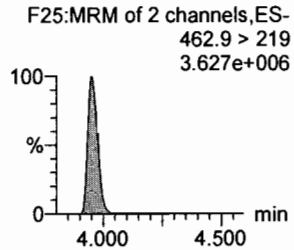
PFHpS



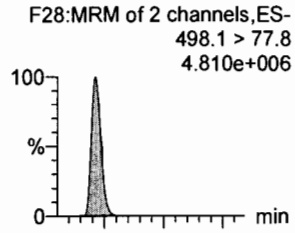


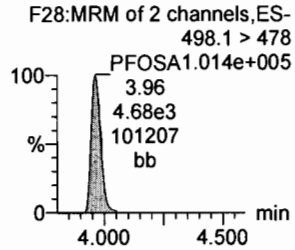
PFNA



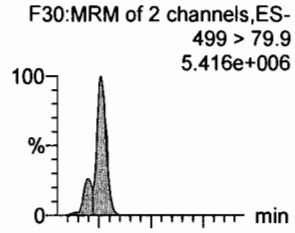


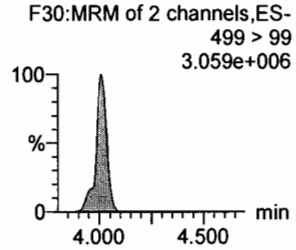
PFOSA



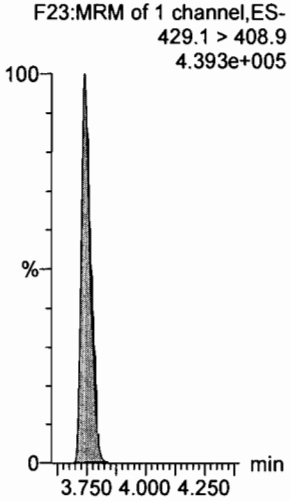


PFOS

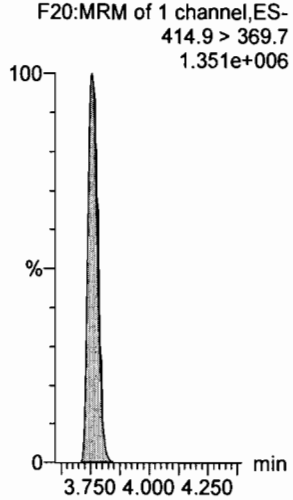




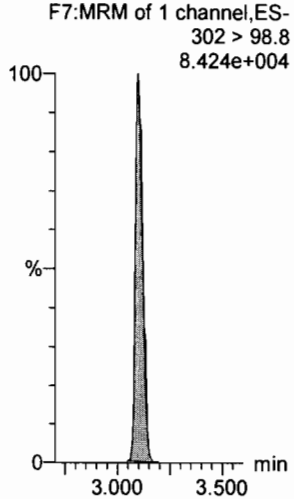
13C2-6:2 FTS



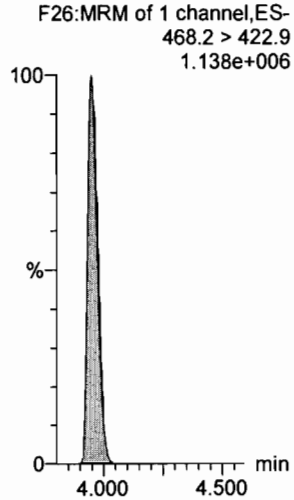
13C2-PFOA



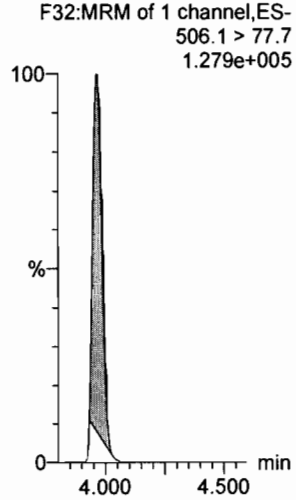
13C3-PFBS



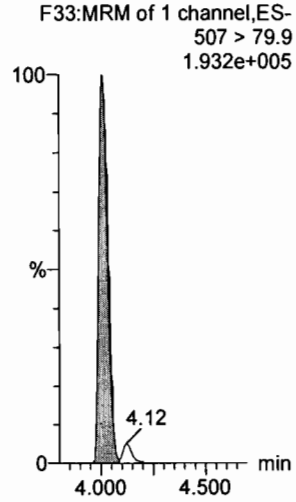
13C5-PFNA



13C8-PFOSA



13C8-PFOS



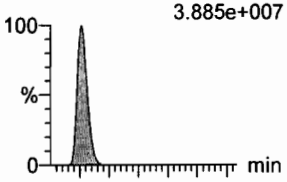
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

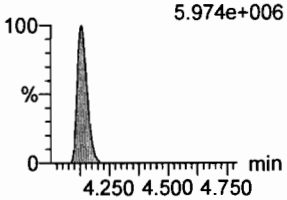
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:16 Pacific Daylight Time

Name: 170810M2_11, Date: 10-Aug-2017, Time: 22:09:12, ID: ST170810M2-10 PFC CS7 17H1012, Description: PFC CS7 17H1012

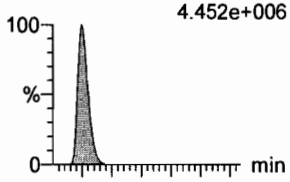
PFDA
F35:MRM of 2 channels,ES-
513 > 468.8
3.885e+007



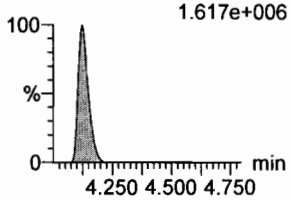
F35:MRM of 2 channels,ES-
513 > 219
5.974e+006



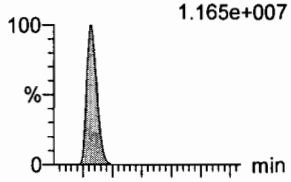
8:2 FTS
F40:MRM of 2 channels,ES-
527 > 506.9
4.452e+006



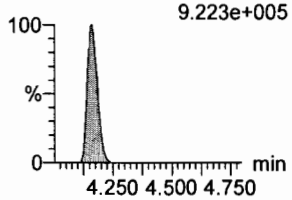
F40:MRM of 2 channels,ES-
527 > 80
1.617e+006



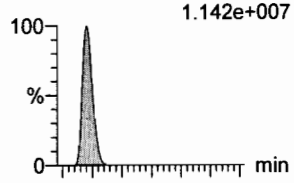
N-MeFOSAA
F45:MRM of 2 channels,ES-
570.1 > 419
1.165e+007



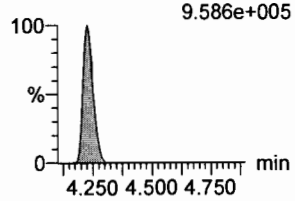
F45:MRM of 2 channels,ES-
570.1 > 483
9.223e+005



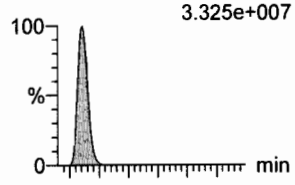
N-EtFOSAA
F48:MRM of 2 channels,ES-
584.2 > 419
1.142e+007



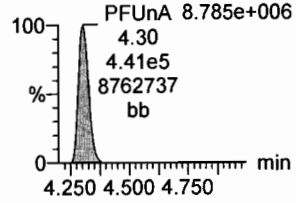
F48:MRM of 2 channels,ES-
584.2 > 483
9.586e+005



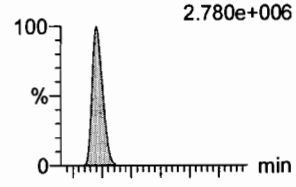
PFUnA
F43:MRM of 2 channels,ES-
562.9 > 518.9
3.325e+007



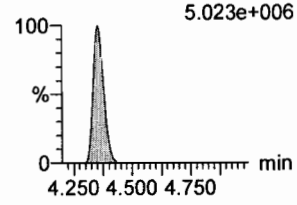
F43:MRM of 2 channels,ES-
562.9 > 269
PFUnA 8.785e+006
4.30
4.41e5
8762737
bb



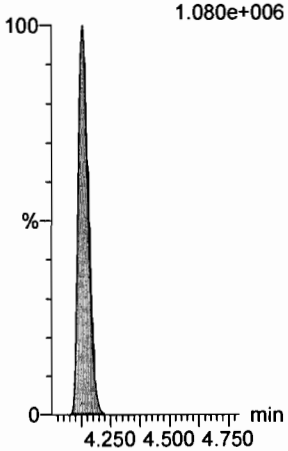
PFDS
F50:MRM of 2 channels,ES-
598.9 > 98.7
2.780e+006



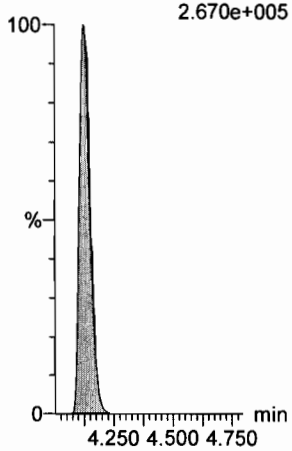
F50:MRM of 2 channels,ES-
598.9 > 80
5.023e+006



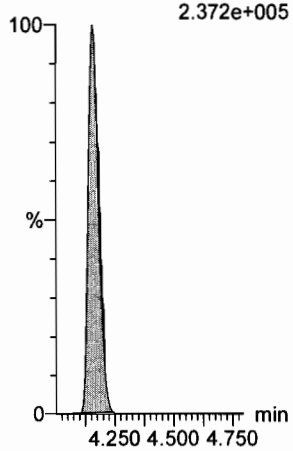
13C2-PFDA
F36:MRM of 1 channel,ES-
515.1 > 469.9
1.080e+006



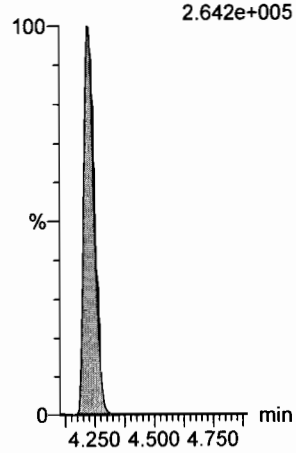
13C2-8:2 FTS
F41:MRM of 1 channel,ES-
529.1 > 508.7
2.670e+005



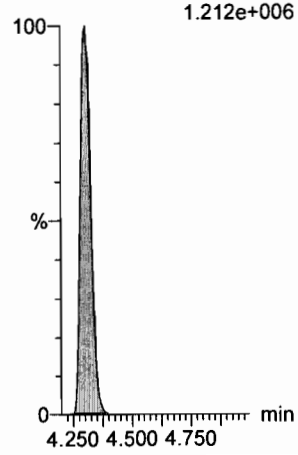
d3-N-MeFOSAA
F47:MRM of 1 channel,ES-
573.3 > 419
2.372e+005



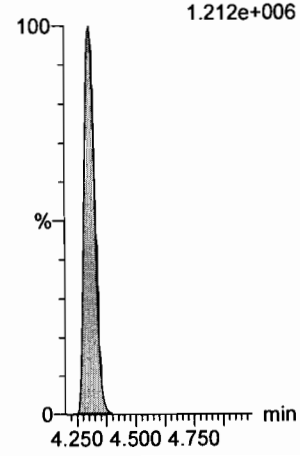
d5-N-EtFOSAA
F49:MRM of 1 channel,ES-
589.3 > 419
2.642e+005



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.212e+006



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.212e+006

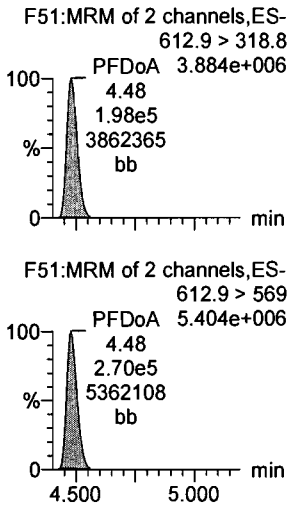


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

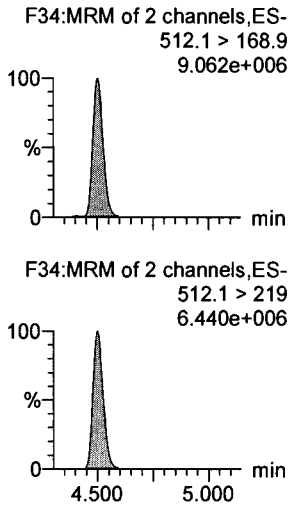
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:16 Pacific Daylight Time

Name: 170810M2_11, Date: 10-Aug-2017, Time: 22:09:12, ID: ST170810M2-10 PFC CS7 17H1012, Description: PFC CS7 17H1012

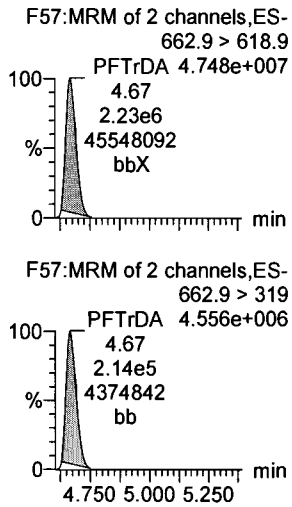
PFDoA



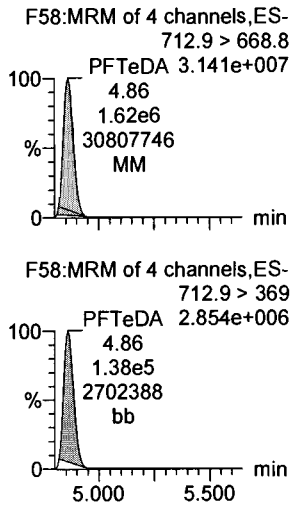
N-MeFOSA



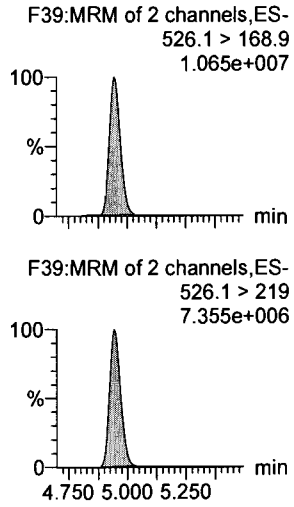
PFTrDA



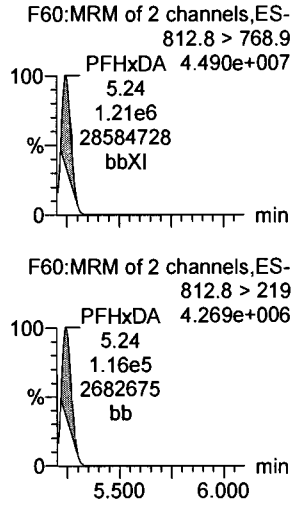
PFTeDA



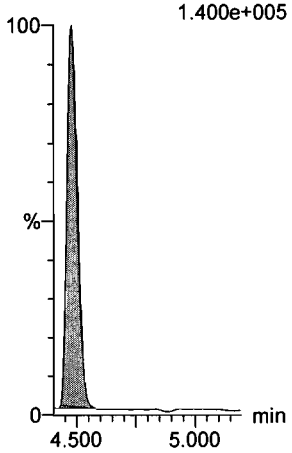
N-EtFOSA



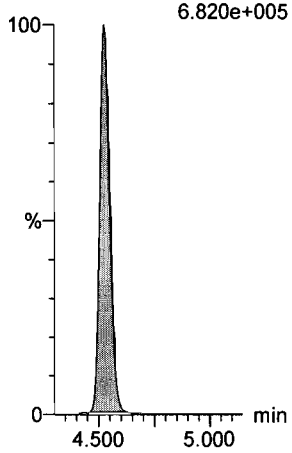
PFHxDA



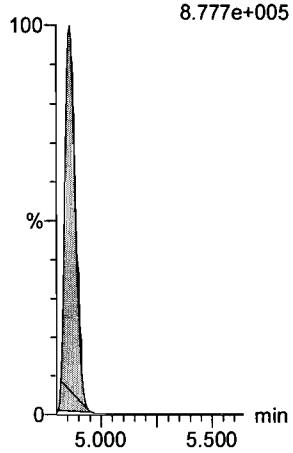
13C2-PFDoA



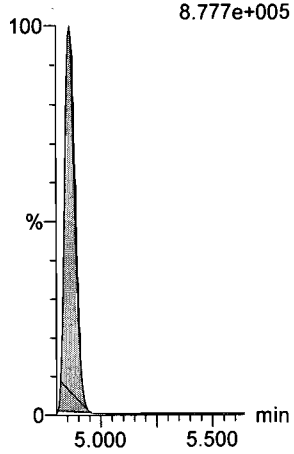
d3-N-MeFOSA



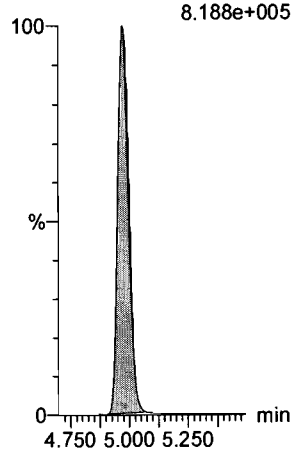
13C2-PFTeDA



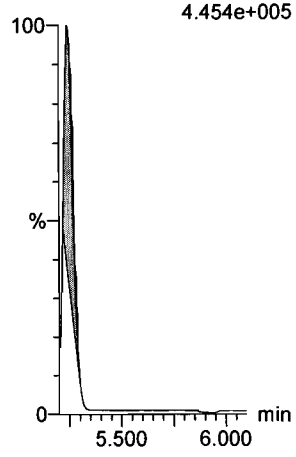
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA

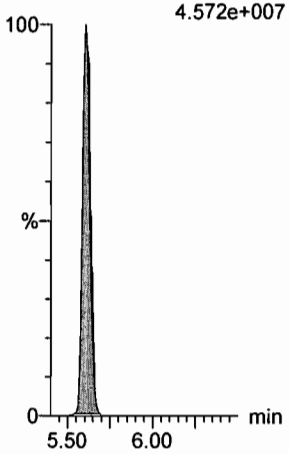


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

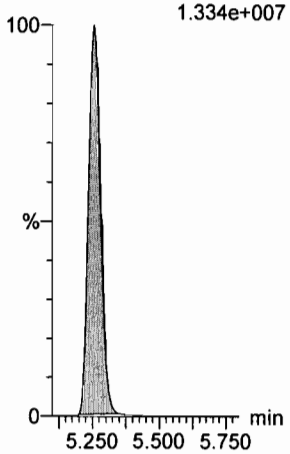
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:16 Pacific Daylight Time

Name: 170810M2_11, Date: 10-Aug-2017, Time: 22:09:12, ID: ST170810M2-10 PFC CS7 17H1012, Description: PFC CS7 17H1012

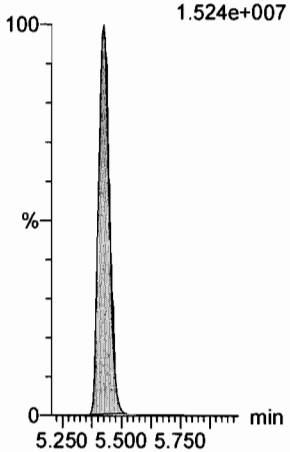
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
4.572e+007



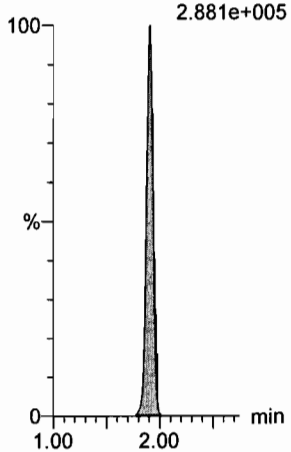
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
1.334e+007



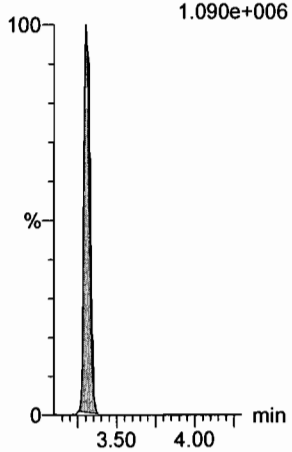
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
1.524e+007



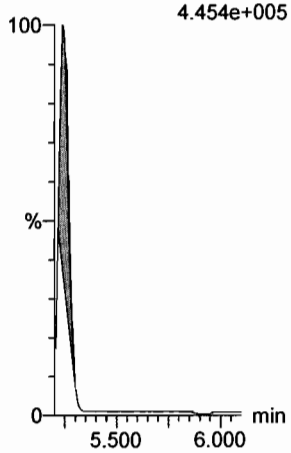
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.881e+005



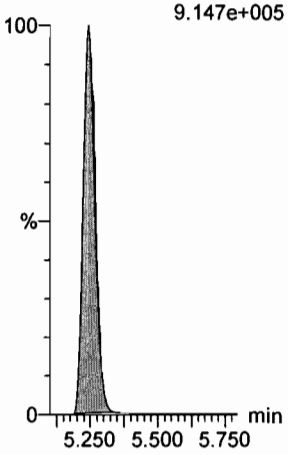
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.090e+006



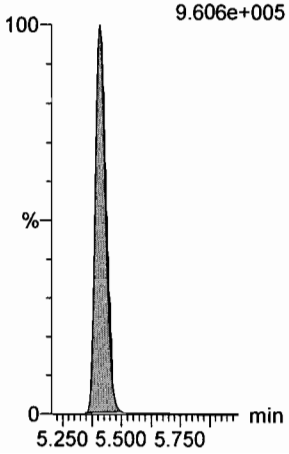
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.454e+005



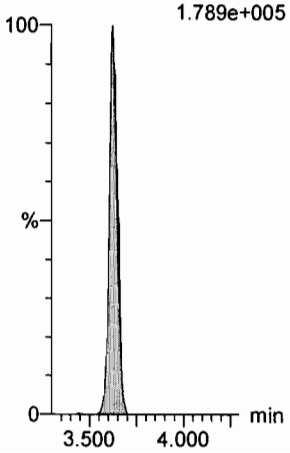
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
9.147e+005



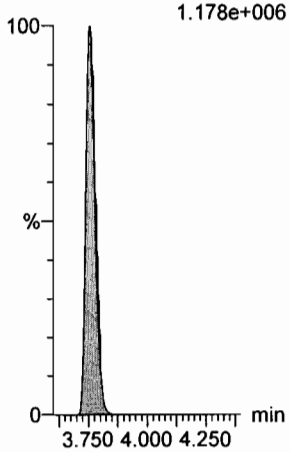
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
9.606e+005



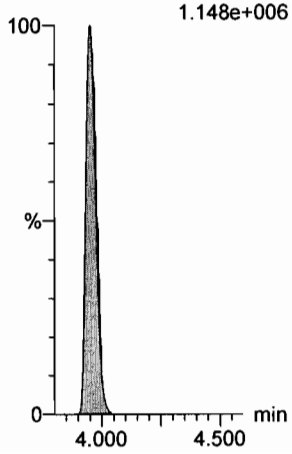
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.789e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.178e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.148e+006

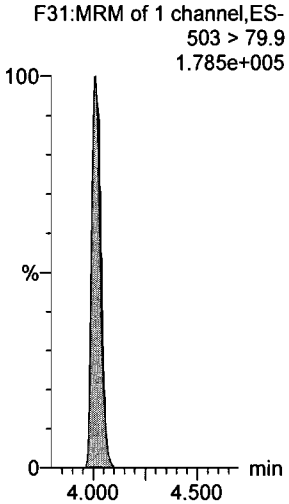


Dataset: U:\Q4.PRO\results\170810M1\170810M2-CRV.qld

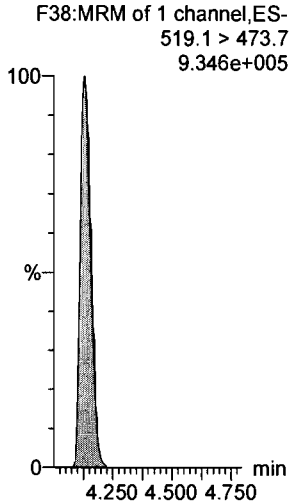
Last Altered: Friday, August 11, 2017 09:12:09 Pacific Daylight Time
Printed: Friday, August 11, 2017 09:27:16 Pacific Daylight Time

Name: 170810M2_11, Date: 10-Aug-2017, Time: 22:09:12, ID: ST170810M2-10 PFC CS7 17H1012, Description: PFC CS7 17H1012

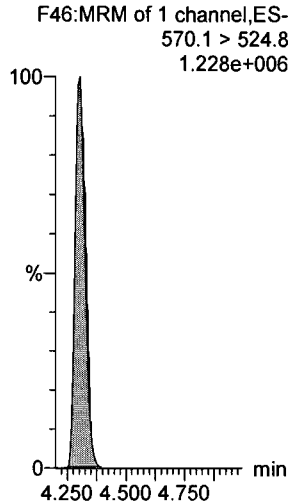
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-10-17.mdb 11 Aug 2017 08:55:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	1.58e4	1.65e4		1.90	1.90	11.9	10.9	108.9
2	2	PFPeA	263.1 > 218.9	2.50e4	3.00e4		3.00	2.93	10.4	10.9	109.1
3	3	PFBS	299 > 79.7	4.94e3	3.50e3		3.16	3.10	17.6	10.2	102.0
4	4	PFHxA	313.2 > 268.9	3.88e4	1.21e4		3.35	3.30	16.1	12.2	122.4
5	5	PFHpA	363 > 318.9	4.45e4	4.43e4		3.61	3.55	12.6	10.7	106.6
6	6	PFHxS	398.9 > 79.6	5.19e3	3.78e3		3.65	3.62	17.2	9.76	97.6
7	7	6:2 FTS	427.1 > 407	8.64e3	1.08e4		3.80	3.74	10.0	10.7	107.4
8	8	PFOA	413 > 368.7	5.53e4	6.29e4		3.82	3.75	11.0	11.1	110.5
9	9	PFHpS	448.9 > 98.8	4.60e3	6.29e4		3.80	3.82	0.914	11.5	115.2
10	10	PFNA	462.9 > 418.8	5.12e4	5.49e4		4.02	3.95	11.7	11.4	113.9
11	11	PFOSA	498.1 > 77.8	6.91e3	7.39e3		4.05	3.96	11.7	11.1	111.0
12	12	PFOS	499 > 79.9	9.36e3	1.10e4		4.07	4.01	10.6	9.98	99.8
13	13	PFDA	513 > 468.8	5.63e4	5.29e4		4.21	4.13	13.3	11.7	116.5
14	14	8:2 FTS	527 > 506.9	9.04e3	7.56e3		4.20	4.12	14.9	10.8	108.3
15	15	N-MeFOSAA	570.1 > 419	1.62e4	1.27e4		4.23	4.16	208	10.8	107.7
16	16	N-EtFOSAA	584.2 > 419	1.43e4	1.37e4		4.30	4.23	170	10.8	108.4
17	17	PFUnA	562.9 > 518.9	4.38e4	6.22e4		4.38	4.30	8.80	10.8	107.9
18	18	PFDS	598.9 > 98.7	4.05e3	6.22e4		4.40	4.35	0.815	9.87	98.7
19	19	PFDoA	612.9 > 318.8	4.95e3	6.76e3		4.58	4.48	9.16	10.9	109.4
20	20	N-MeFOSA	512.1 > 168.9		3.08e4		4.56			(A)	
21	21	PFTrDA	662.9 > 618.9	6.41e4	6.76e3		4.78	4.66	118	11.7	117.0
22	22	PFTeDA	712.9 > 668.8	4.52e4	4.45e4		4.97	4.86	12.7	11.1	110.9
23	23	N-EtFOSA	526.1 > 168.9		3.80e4		5.03			(A)	
24	24	PFHxDA	812.8 > 768.9	2.74e2	2.09e4		5.37	5.24	0.0656		
25	25	PFODA	912.8 > 868.8	3.35e2	2.09e4		5.60	5.60	0.0800		
26	26	N-MeFOSE	616.1 > 58.9		4.35e4		5.30				
27	27	N-EtFOSE	630.1 > 58.9		4.17e4		5.40				
28	28	13C3-PFBA	216.1 > 171.8	1.65e4	1.87e4	0.906	1.90	1.90	11.1	12.2	97.6
29	29	13C3-PFPeA	266 > 221.8	3.00e4	4.18e4	0.284	2.99	2.94	3.59	12.6	101.1
30	30	13C3-PFBS	302 > 98.8	3.50e3	4.18e4	0.033	3.15	3.10	0.418	12.7	101.8
31	31	13C2-PFHxA	315 > 269.8	1.21e4	4.18e4	0.304	3.35	3.30	1.44	4.75	94.9

70-130

50-150

DM 8/11/17

(A) Not present in ICV standard. DM 8/11/17

Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	4.43e4	4.18e4	0.384	3.61	3.55	5.29	13.8	110.2
33	33	18O2-PFHxS	403 > 102.6	3.78e3	8.56e3	0.417	3.68	3.62	5.52	13.2	105.8
34	34	13C2-6:2 FTS	429.1 > 408.9	1.08e4	6.07e4	0.202	3.80	3.75	2.22	11.0	88.1
35	35	13C2-PFOA	414.9 > 369.7	6.29e4	6.07e4	1.132	3.82	3.75	12.9	11.4	91.5
36	36	13C5-PFNA	468.2 > 422.9	5.49e4	6.37e4	0.946	4.02	3.95	10.8	11.4	91.0
37	37	13C8-PFOSA	506.1 > 77.7	7.39e3	6.42e4	0.119	4.08	3.96	1.44	12.0	96.4
38	38	13C8-PFOS	507 > 79.9	1.10e4	1.05e4	1.040	4.07	4.01	13.1	12.6	101.1
39	39	13C2-PFDA	515.1 > 469.9	5.29e4	5.81e4	0.971	4.21	4.13	11.4	11.7	93.9
40	40	13C2-8:2 FTS	529.1 > 508.7	7.56e3	5.81e4	0.140	4.20	4.12	1.63	11.6	92.8
41	41	d3-N-MeFOSAA	573.3 > 419	1.27e4	6.42e4	0.018	4.23	4.16	2.47	139	85.4
42	42	d5-N-EtFOSAA	589.3 > 419	1.37e4	6.42e4	0.018	4.30	4.22	2.67	146	90.1
43	43	13C2-PFUnA	565 > 519.8	6.22e4	6.42e4	1.085	4.38	4.30	12.1	11.1	89.2
44	44	13C2-PFDoA	615 > 569.7	6.76e3	6.42e4	0.123	4.58	4.48	1.32	10.7	85.5
45	45	d3-N-MeFOSA	515.2 > 168.9	3.08e4	6.42e4	0.043	4.56	4.53	5.99	138	92.3
46	46	13C2-PFTeDA	714.8 > 669.6	4.45e4	6.42e4	0.798	4.97	4.86	8.67	10.9	86.9
47	47	d5-N-ETFOSA	531.1 > 168.9	3.80e4	6.42e4	0.056	5.03	4.97	7.40	133	88.6
48	48	13C2-PFHxDA	815 > 769.7	2.09e4	6.42e4	0.926	5.37	5.24	4.07	4.40	87.9
49	49	d7-N-MeFOSE	623.1 > 58.9	4.35e4	6.42e4	0.059	5.30	5.24	8.46	142	94.9
50	50	d9-N-EtFOSE	639.2 > 58.8	4.17e4	6.42e4	0.059	5.40	5.41	8.12	137	91.1
51	51	13C4-PFBA	217 > 171.8	1.87e4	1.87e4	1.000	1.90	1.90	12.5	12.5	100.0
52	52	13C5-PFHxA	318 > 272.9	4.18e4	4.18e4	1.000	3.35	3.30	5.00	5.00	100.0
53	53	13C3-PFHxS	401.9 > 79.9	8.56e3	8.56e3	1.000	3.68	3.62	12.5	12.5	100.0
54	54	13C8-PFOA	421.3 > 376	6.07e4	6.07e4	1.000	3.82	3.76	12.5	12.5	100.0
55	55	13C9-PFNA	472.2 > 426.9	6.37e4	6.37e4	1.000	4.02	3.95	12.5	12.5	100.0
56	56	13C4-PFOS	503 > 79.9	1.05e4	1.05e4	1.000	4.07	4.01	12.5	12.5	100.0
57	57	13C6-PFDA	519.1 > 473.7	5.81e4	5.81e4	1.000	4.21	4.13	12.5	12.5	100.0
58	58	13C7-PFUnA	570.1 > 524.8	6.42e4	6.42e4	1.000	4.38	4.30	12.5	12.5	100.0

80-150

(B) out of window, not used. ah 8/11/17

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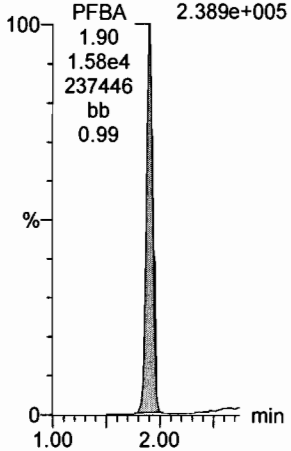
Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

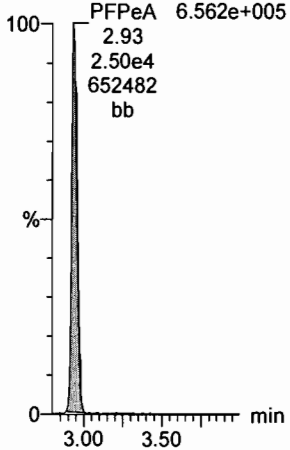
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-10-17.mdb 11 Aug 2017 08:55:25
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

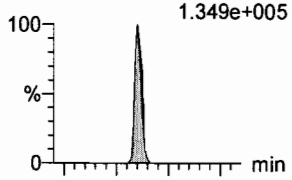
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
2.389e+005
PFBA
1.90
1.58e4
237446
bb
0.99



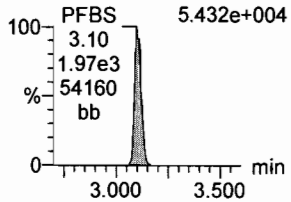
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
6.562e+005
PFPeA
2.93
2.50e4
652482
bb



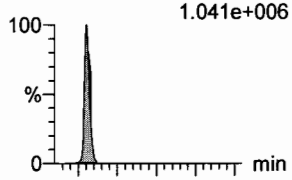
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
1.349e+005



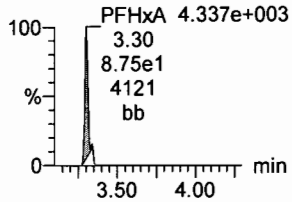
F6:MRM of 2 channels,ES-
299 > 99
5.432e+004
PFBS
3.10
1.97e3
54160
bb



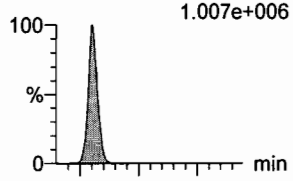
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
1.041e+006



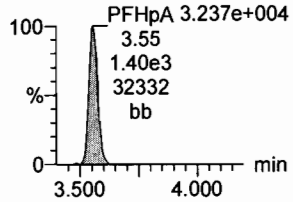
F8:MRM of 2 channels,ES-
313.2 > 119
4.337e+003
PFHxA
3.30
8.75e1
4121
bb



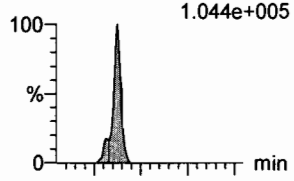
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
1.007e+006



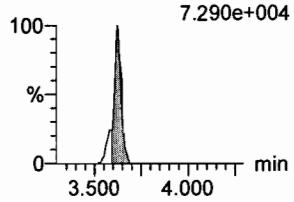
F14:MRM of 2 channels,ES-
363 > 169
3.237e+004
PFHpA
3.55
1.40e3
32332
bb



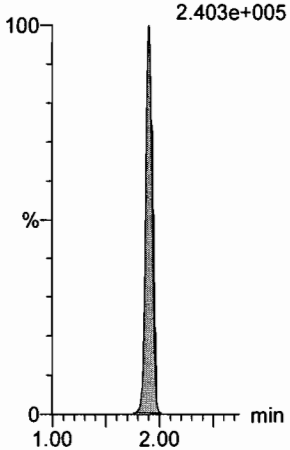
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
1.044e+005



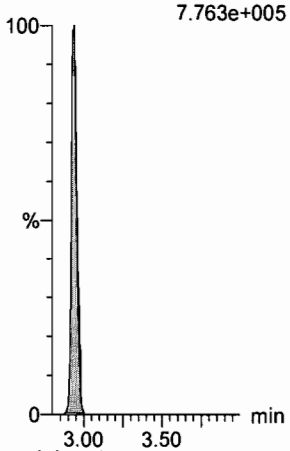
F16:MRM of 2 channels,ES-
398.9 > 99
7.290e+004



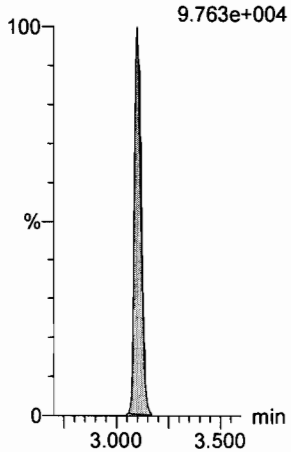
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.403e+005



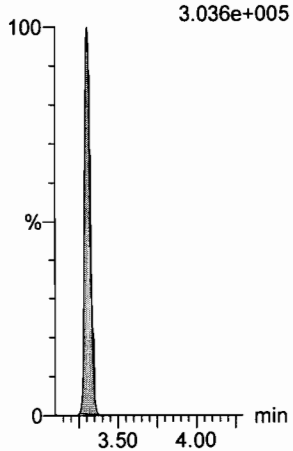
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
7.763e+005



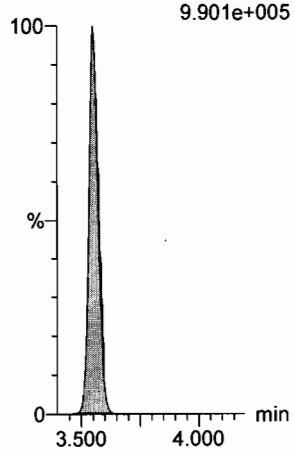
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
9.763e+004



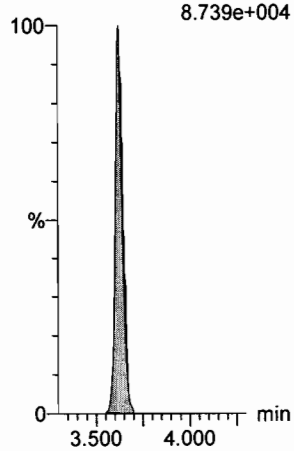
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.036e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
9.901e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
8.739e+004



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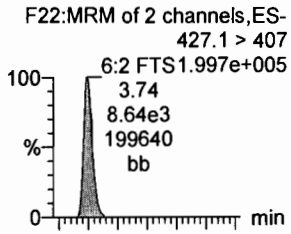
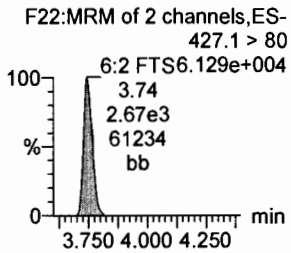
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

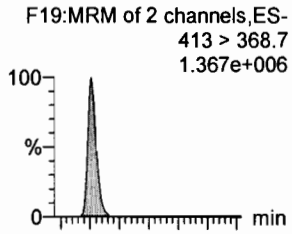
Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

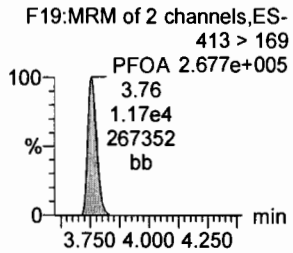
6:2 FTS





PFOA





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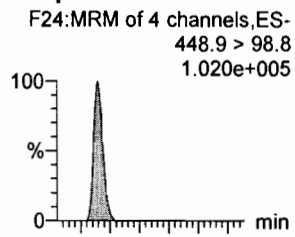

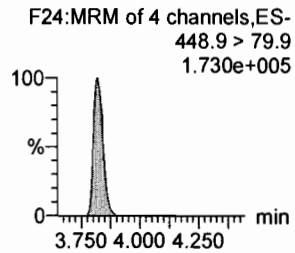

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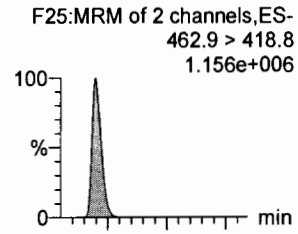

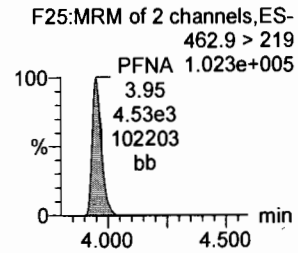

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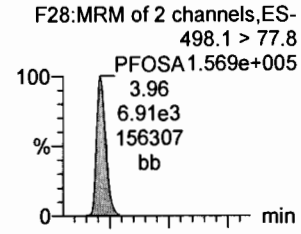

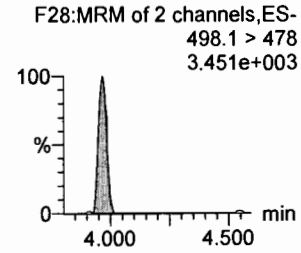

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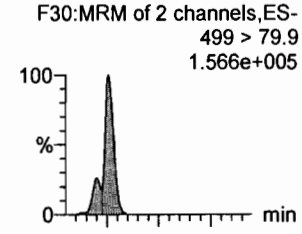
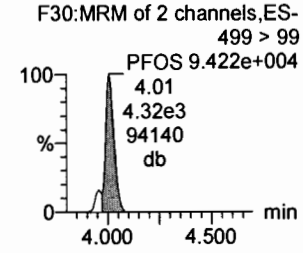
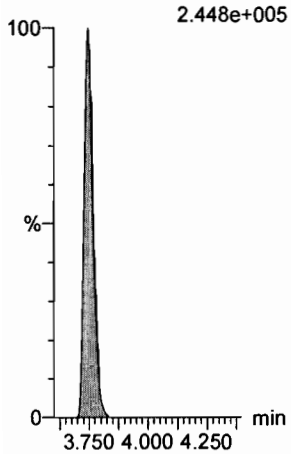
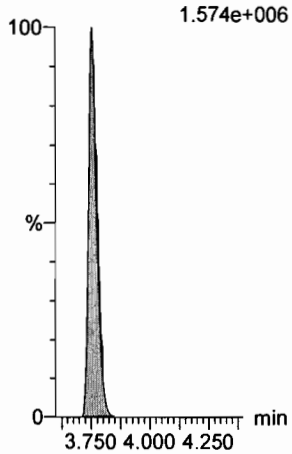




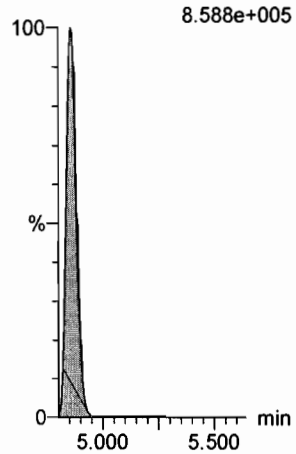
13C2-6:2 FTS



13C2-PFOA



13C2-PFTeDA



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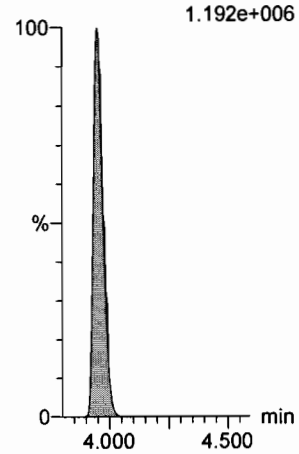
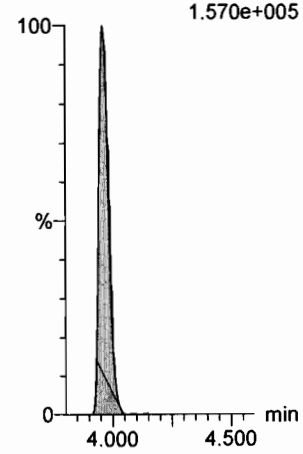


13C8-PFOSA



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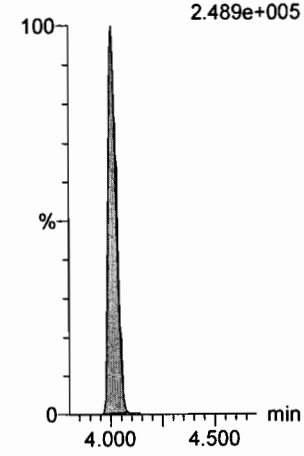

Vista Analytical Laboratory

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Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

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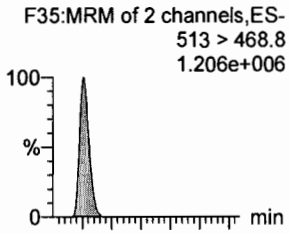
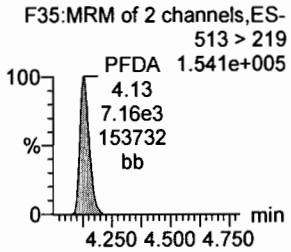
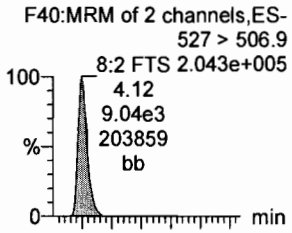
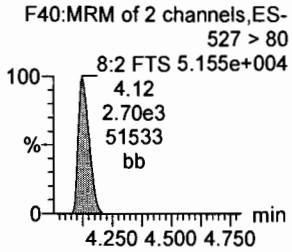




8:2 FTS





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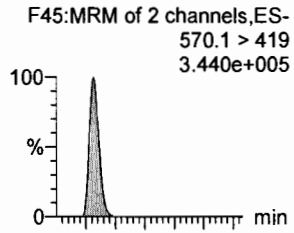

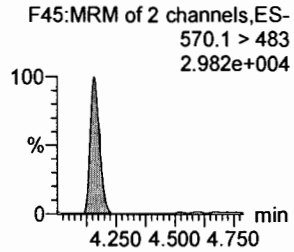

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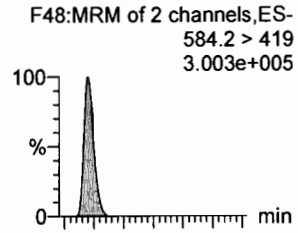

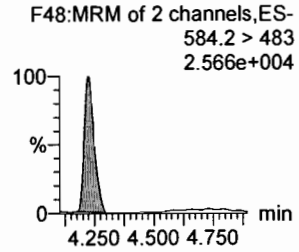

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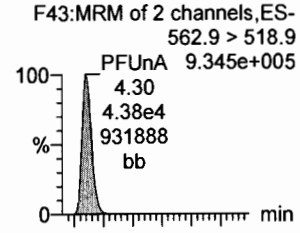

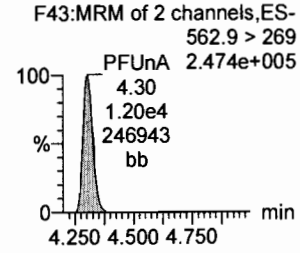

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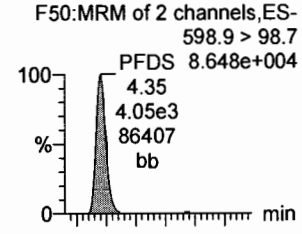

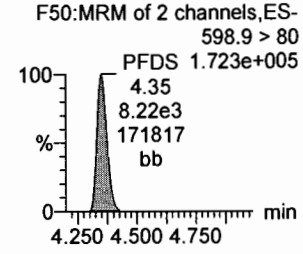

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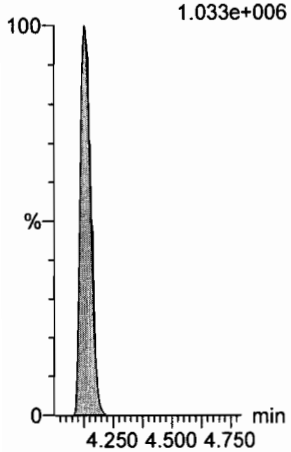
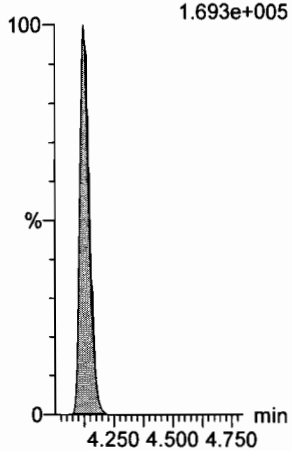
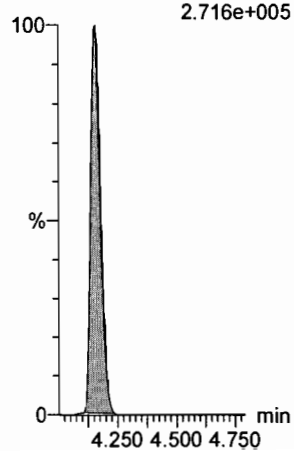


13C2-8:2 FTS



d3-N-MeFOSAA



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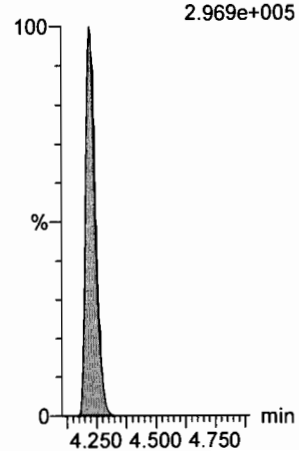

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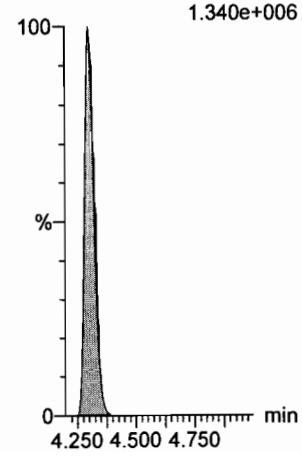

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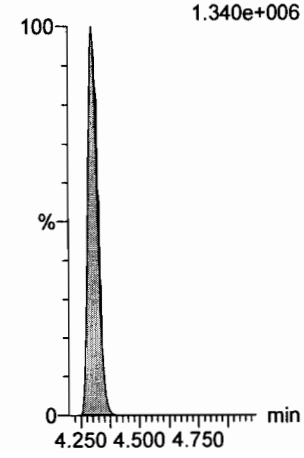

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Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

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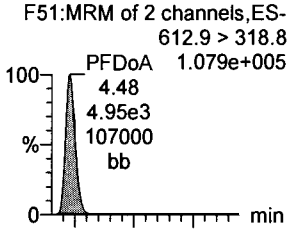

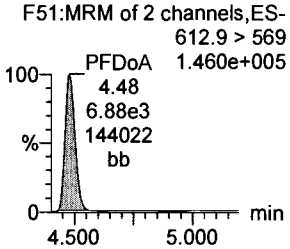

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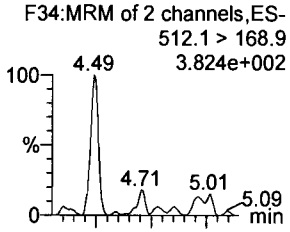

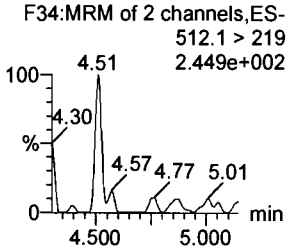

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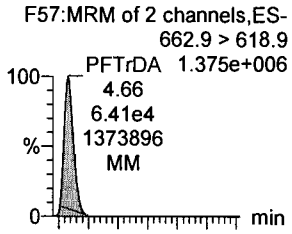

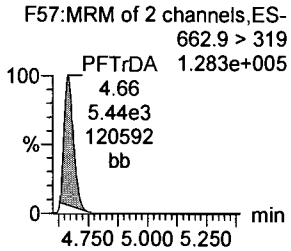

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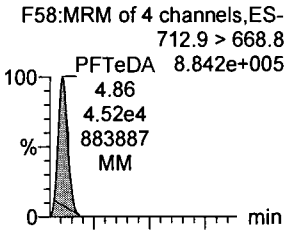

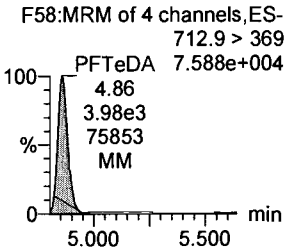

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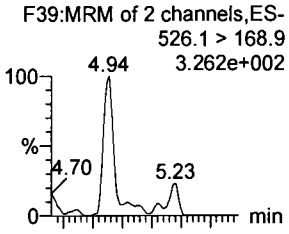

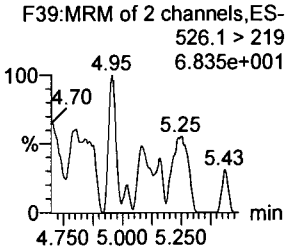

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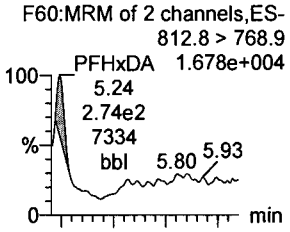
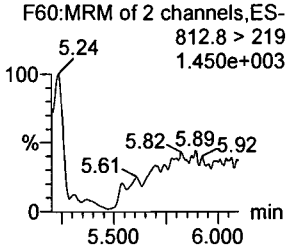
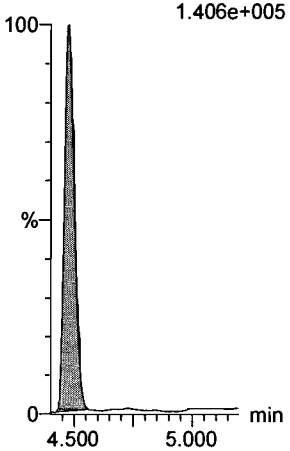




13C2-PFDoA



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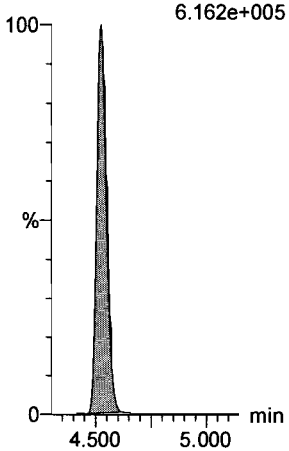

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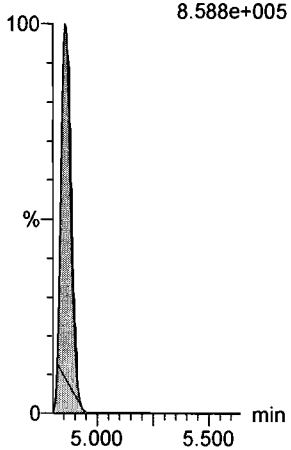

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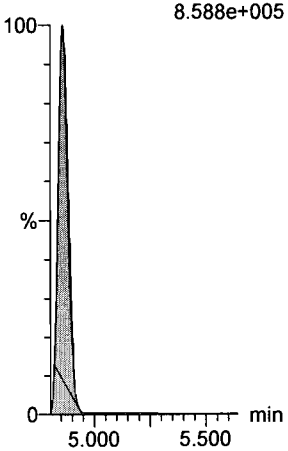

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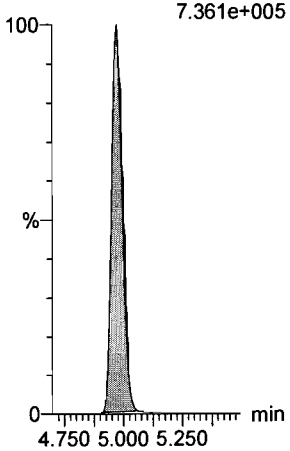
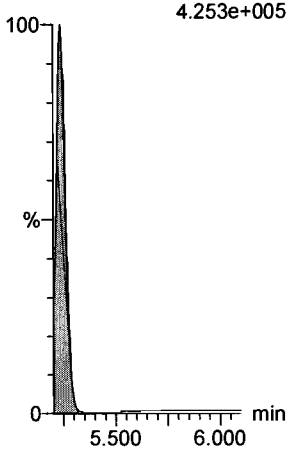


13C2-PFHxDA



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Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

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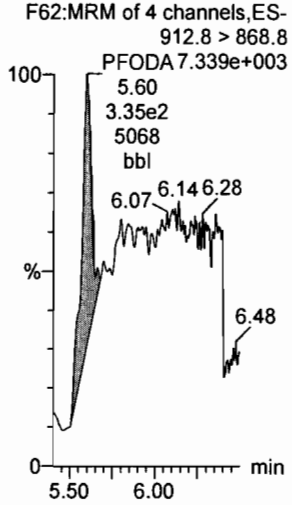

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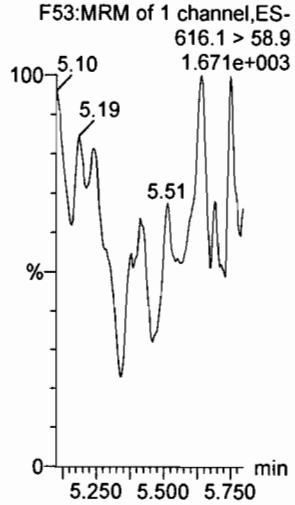

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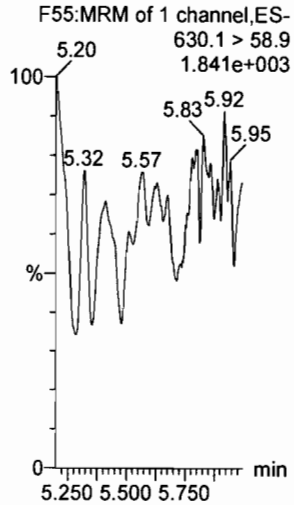

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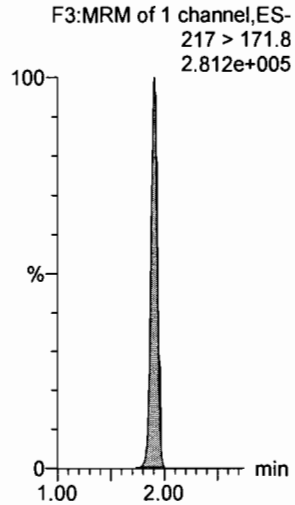
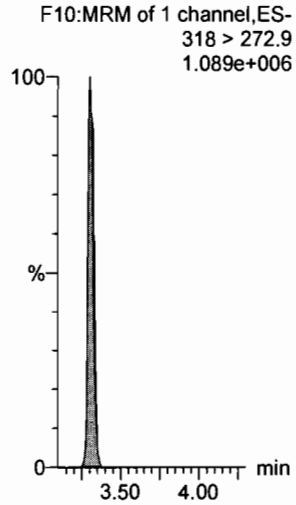
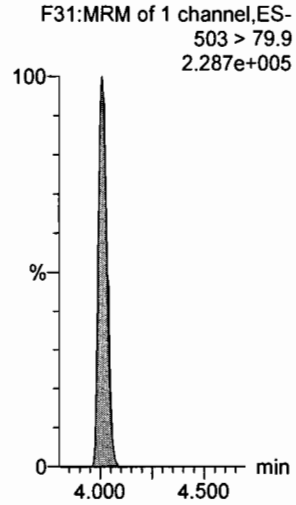


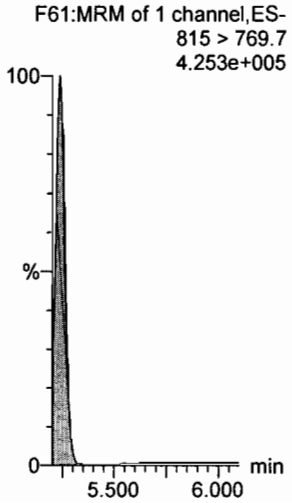
13C5-PFHxA



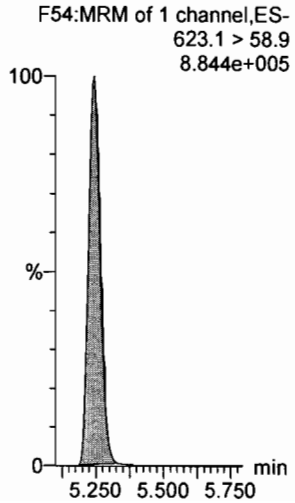
13C4-PFOS



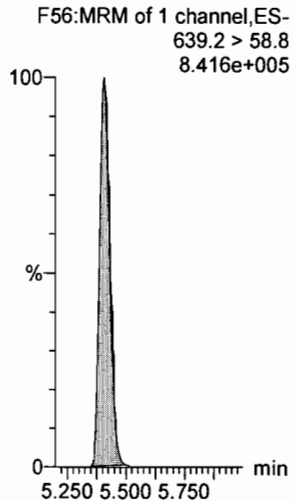
13C2-PFHxDA



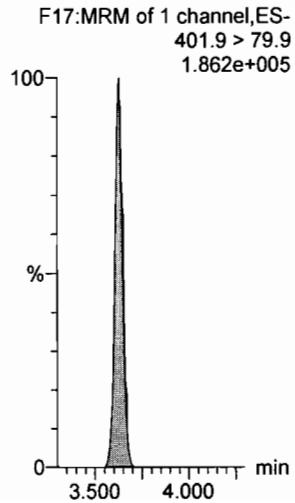
d7-N-MeFOSE



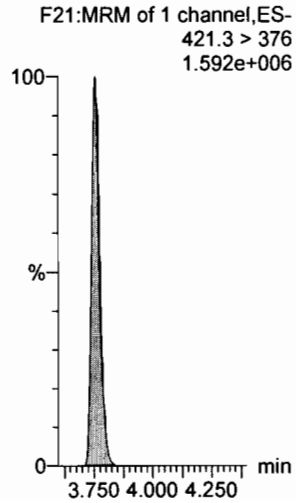
d9-N-EtFOSE



13C3-PFHxS



13C8-PFOA



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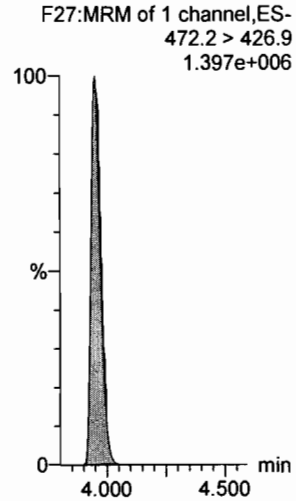

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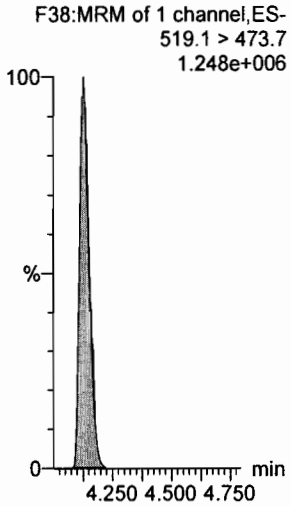
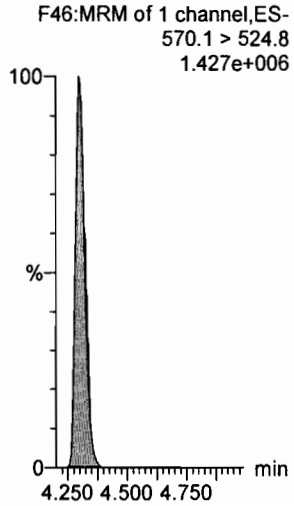
Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

13C6-PFDA



13C7-PFUnA



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170810M1\170810M2-12.qld

Last Altered: Friday, August 11, 2017 10:12:48 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:13:44 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170810M2_12, Date: 10-Aug-2017, Time: 22:19:51, ID: IPA, Description: IPA

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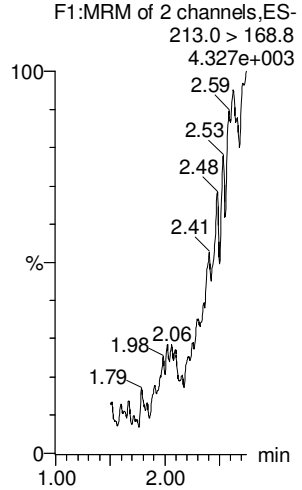

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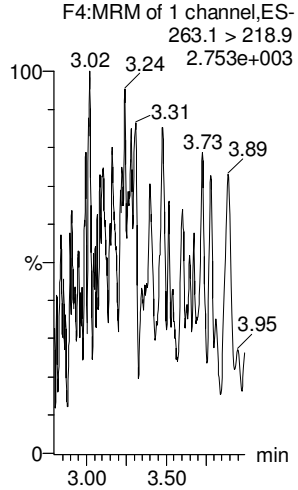

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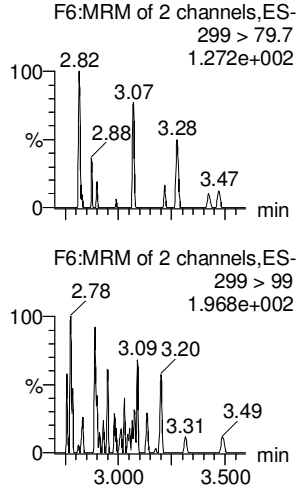

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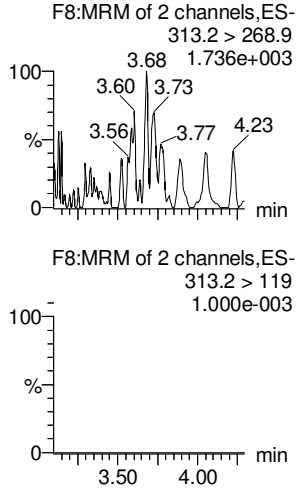

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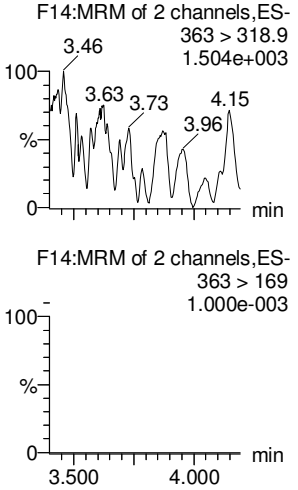
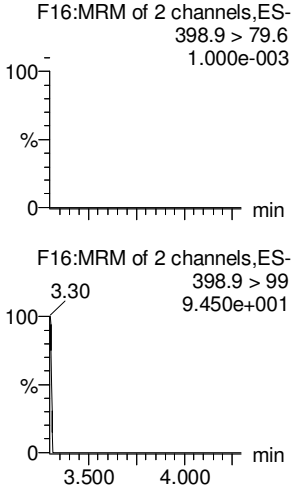


PFHxS



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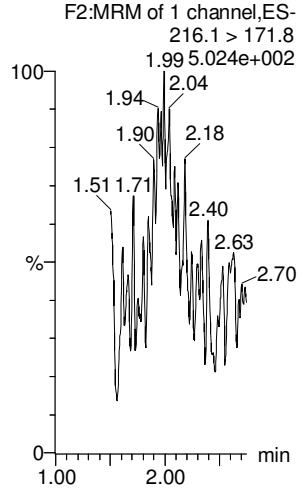
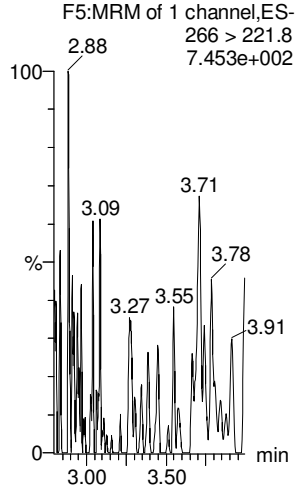
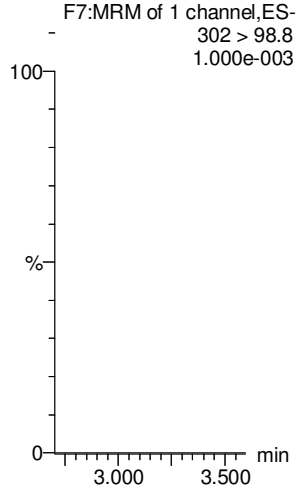


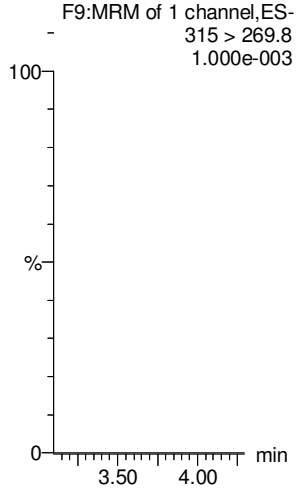
13C3-PFPeA



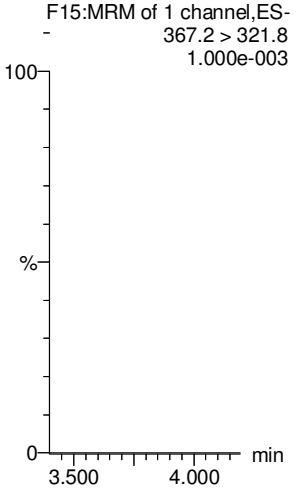
13C3-PFBS



13C2-PFHxA



13C4-PFHpA



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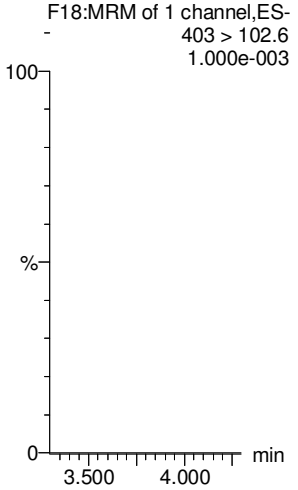

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Vista Analytical Laboratory

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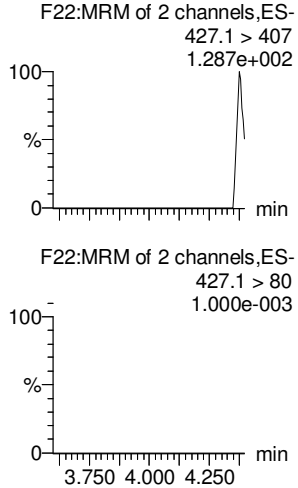
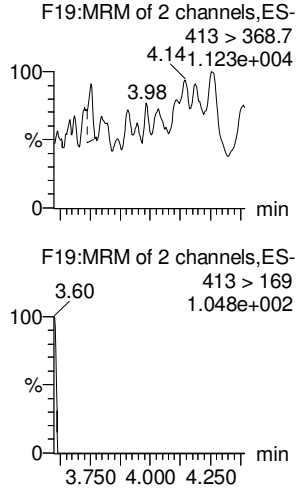
Last Altered: Friday, August 11, 2017 10:12:48 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:13:44 Pacific Daylight Time

Name: 170810M2_12, Date: 10-Aug-2017, Time: 22:19:51, ID: IPA, Description: IPA

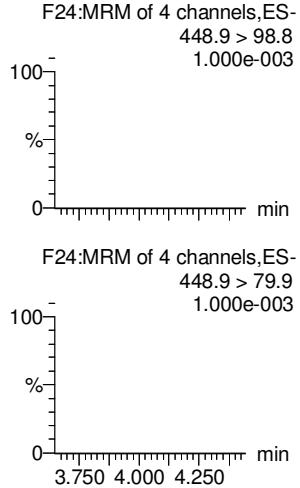
6:2 FTS



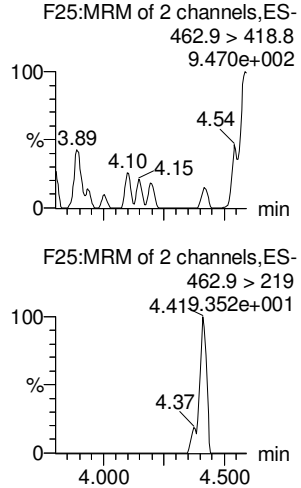
PFOA



PFHpS



PFNA



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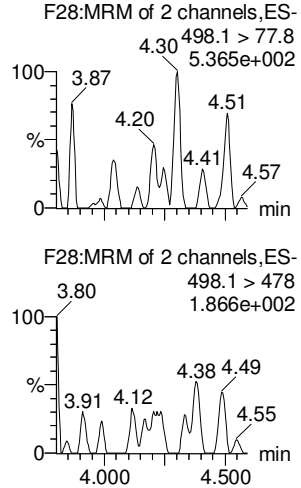

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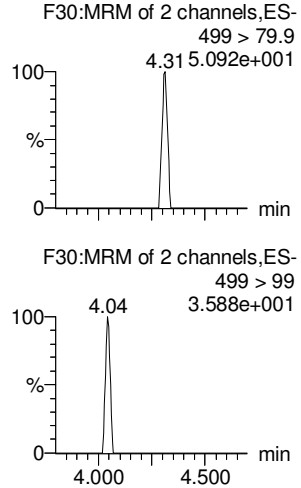
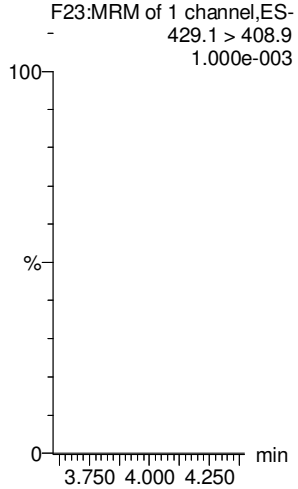
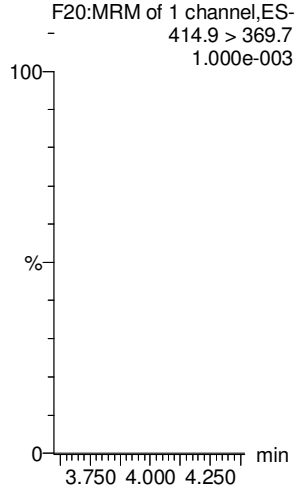


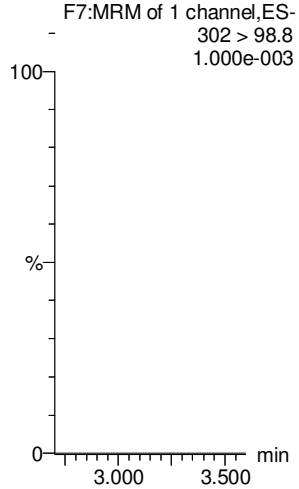
13C2-6:2 FTS



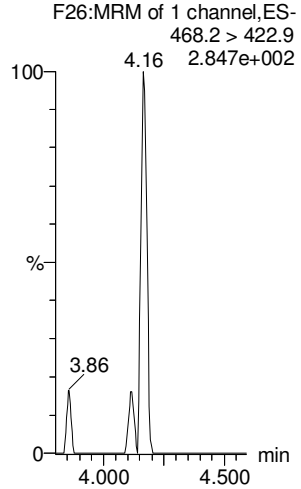
13C2-PFOA



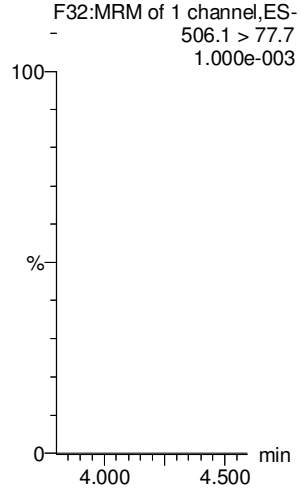
13C3-PFBS



13C5-PFNA



13C8-PFOSA



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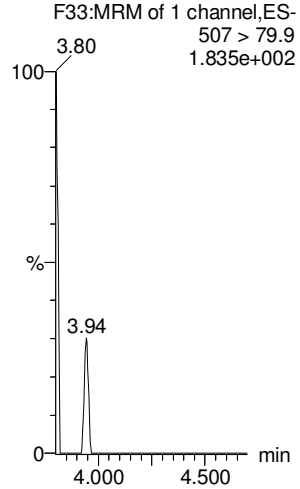

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Vista Analytical Laboratory

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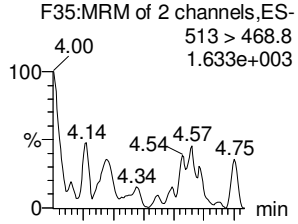
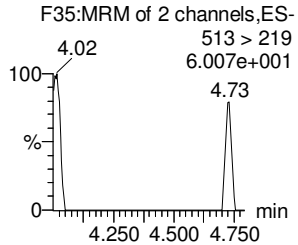
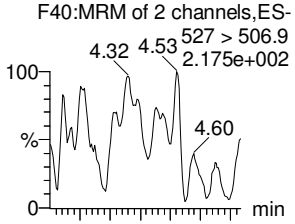
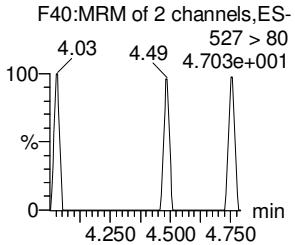


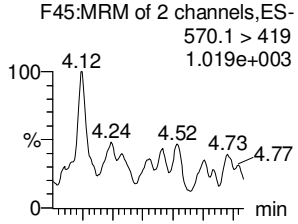


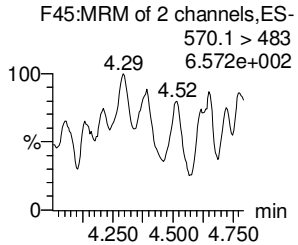
8:2 FTS





N-MeFOSAA





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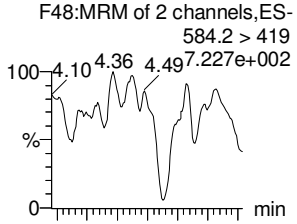

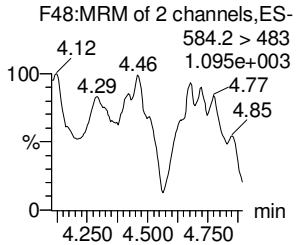

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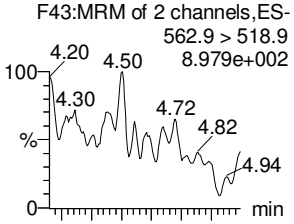

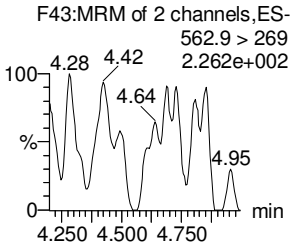

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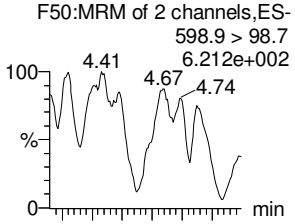
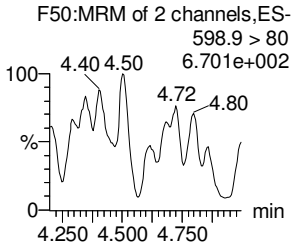
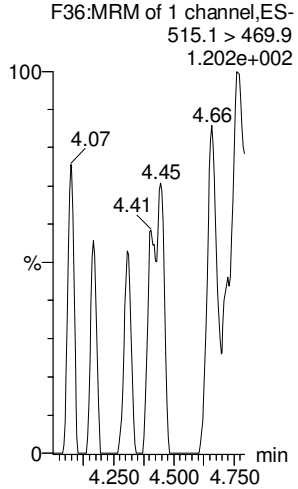
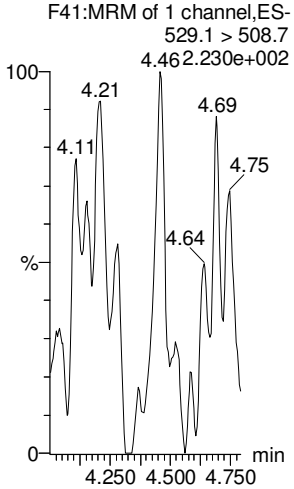




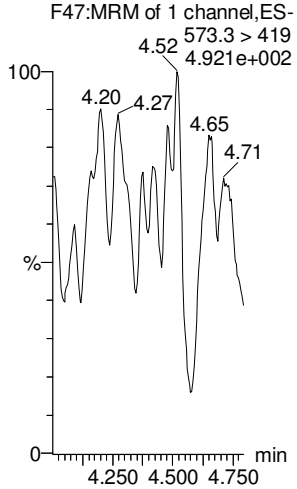
13C2-PFDA



13C2-8:2 FTS



d3-N-MeFOSAA



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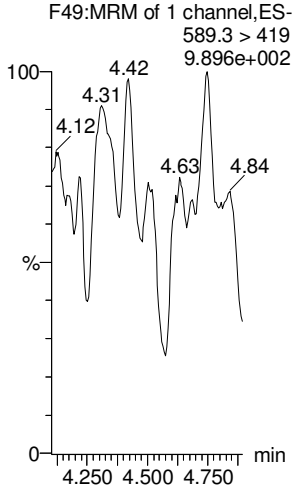

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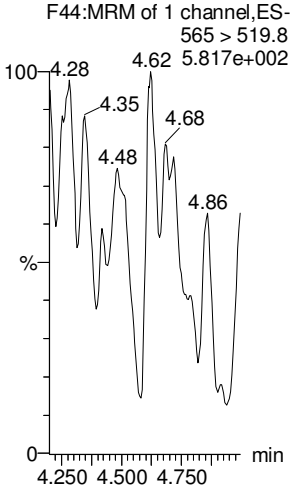

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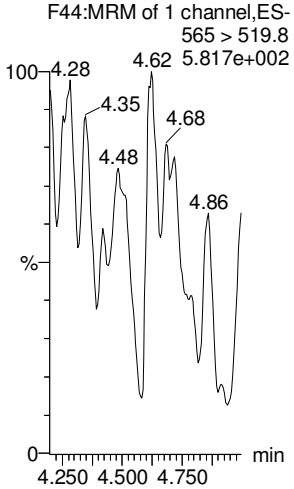

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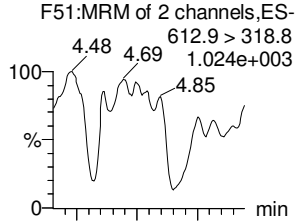
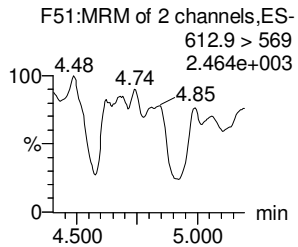
Dataset: U:\Q4.PRO\results\170810M1\170810M2-12.qld

Last Altered: Friday, August 11, 2017 10:12:48 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:13:44 Pacific Daylight Time

Name: 170810M2_12, Date: 10-Aug-2017, Time: 22:19:51, ID: IPA, Description: IPA

PFDoA





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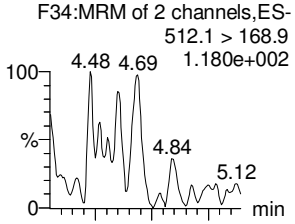

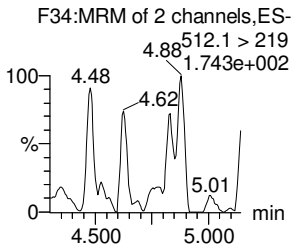

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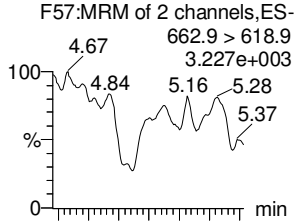

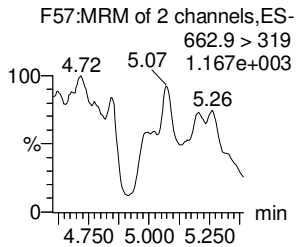

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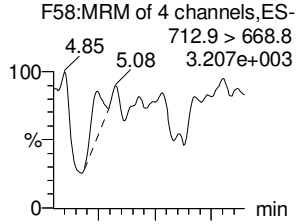

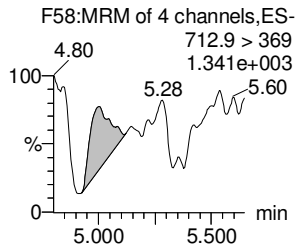

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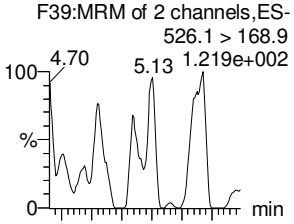

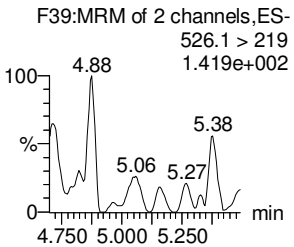

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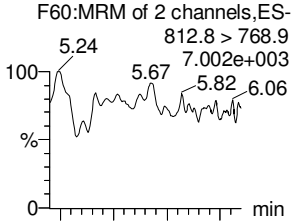

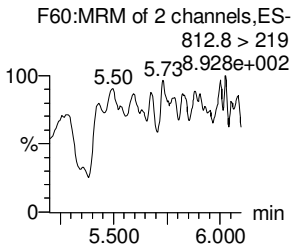

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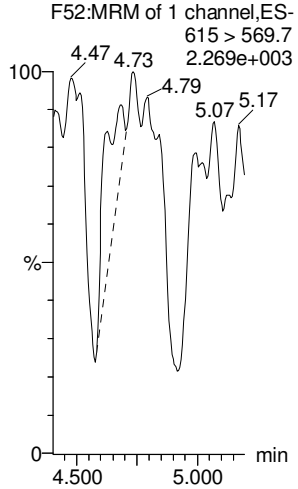
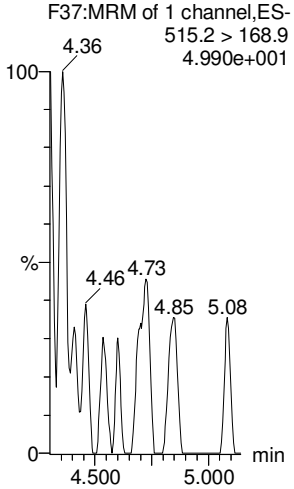


d3-N-MeFOSA



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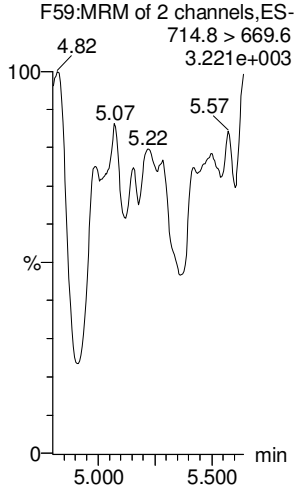

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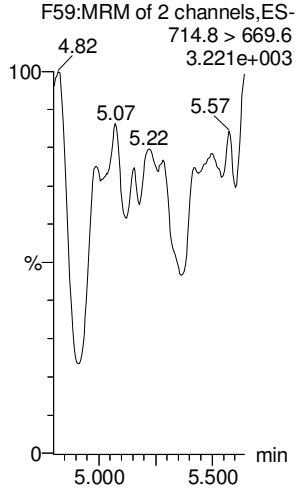

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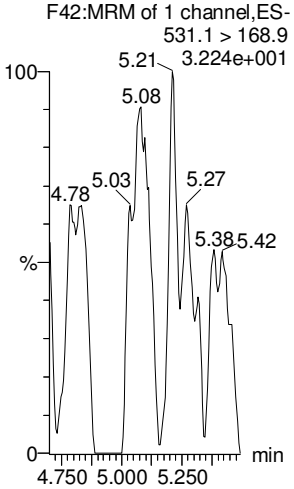
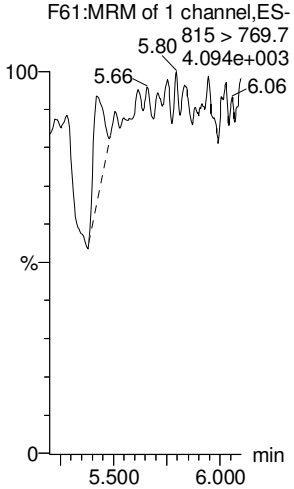


13C2-PFHxDA



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Dataset: U:\Q4.PRO\results\170810M1\170810M2-12.qld

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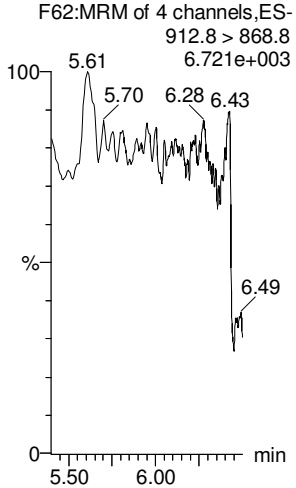
Printed: Friday, August 11, 2017 10:13:44 Pacific Daylight Time

Name: 170810M2_12, Date: 10-Aug-2017, Time: 22:19:51, ID: IPA, Description: IPA

PFODA



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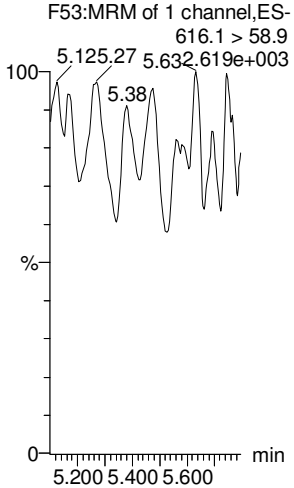

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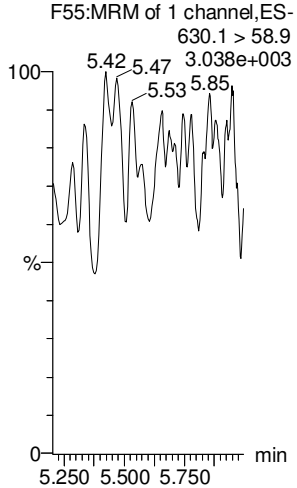

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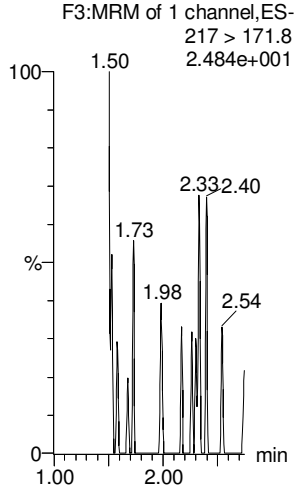

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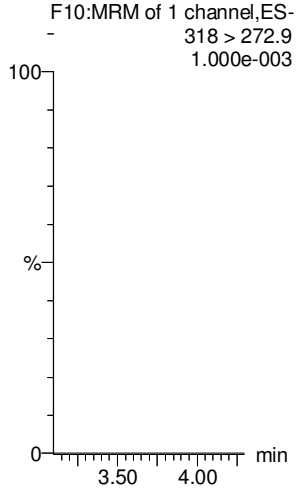
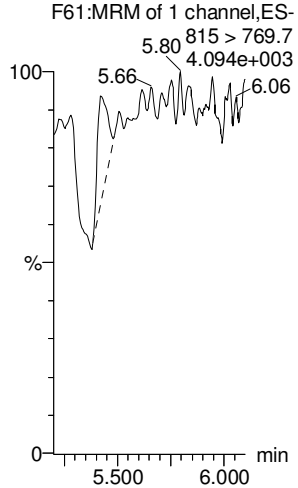


13C2-PFHxDA



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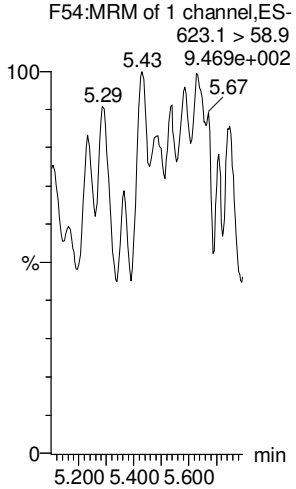
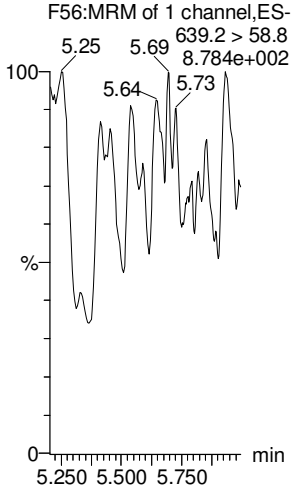


d9-N-EtFOSE



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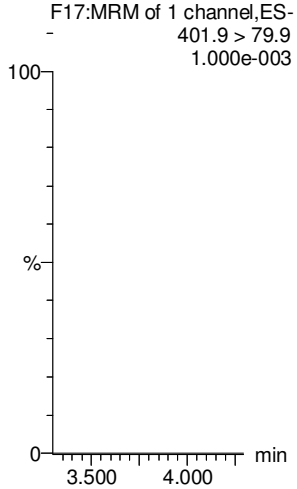

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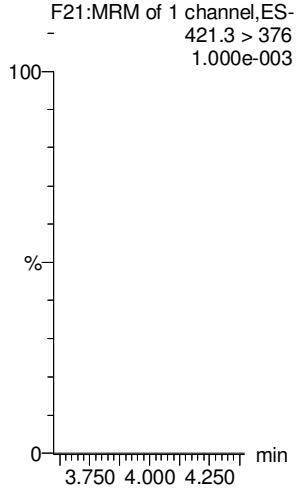

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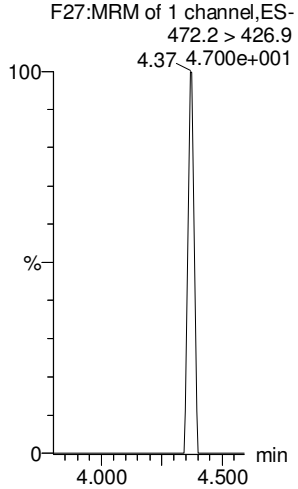

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Dataset: U:\Q4.PRO\results\170810M1\170810M2-12.qld

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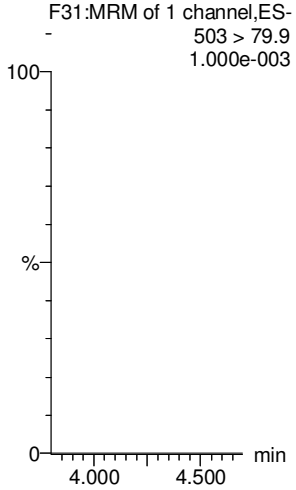
Printed: Friday, August 11, 2017 10:13:44 Pacific Daylight Time

Name: 170810M2_12, Date: 10-Aug-2017, Time: 22:19:51, ID: IPA, Description: IPA

13C4-PFOS



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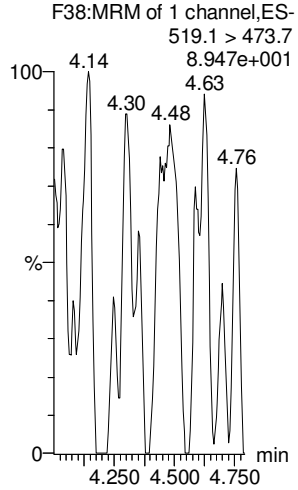
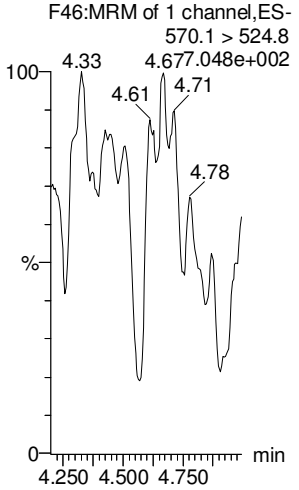


13C7-PFUnA



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Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-10-17-FULL.cdb 11 Aug 2017 09:29:36

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	1.58e4	1.65e4		1.90	1.90	11.9	10.9	108.9
2	2	PFPeA	263.1 > 218.9	2.50e4	3.00e4		3.00	2.93	10.4	10.9	109.1
3	3	PFBS	299 > 79.7	4.94e3	3.50e3		3.16	3.10	17.6	10.2	102.0
4	4	PFHxA	313.2 > 268.9	3.88e4	1.21e4		3.35	3.30	16.1	12.2	122.4
5	5	PFHpA	363 > 318.9	4.45e4	4.43e4		3.61	3.55	12.6	10.7	106.6
6	6	PFHxS	398.9 > 79.6	5.19e3	3.78e3		3.65	3.62	17.2	9.76	97.6
7	7	6:2 FTS	427.1 > 407	8.64e3	1.08e4		3.80	3.74	10.0	10.7	107.4
8	8	PFOA	413 > 368.7	5.53e4	6.29e4		3.82	3.75	11.0	11.1	110.5
9	9	PFHpS	448.9 > 98.8	4.60e3	6.29e4		3.80	3.82	0.914	11.5	115.2
10	10	PFNA	462.9 > 418.8	5.12e4	5.49e4		4.02	3.95	11.7	11.4	113.9
11	11	PFOSA	498.1 > 77.8	6.91e3	7.39e3		4.05	3.96	11.7	11.1	111.0
12	12	PFOS	499 > 79.9	9.36e3	1.10e4		4.07	4.01	10.6	9.98	99.8
13	13	PFDA	513 > 468.8	5.63e4	5.29e4		4.21	4.13	13.3	11.7	116.5
14	14	8:2 FTS	527 > 506.9	9.04e3	7.56e3		4.20	4.12	14.9	10.8	108.3
15	15	N-MeFOSAA	570.1 > 419	1.62e4	1.27e4		4.23	4.16	208	10.8	107.7
16	16	N-EtFOSAA	584.2 > 419	1.43e4	1.37e4		4.30	4.23	170	10.8	108.4
17	17	PFUnA	562.9 > 518.9	4.38e4	6.22e4		4.38	4.30	8.80	10.8	107.9
18	18	PFDS	598.9 > 98.7	4.05e3	6.22e4		4.40	4.35	0.815	9.87	98.7
19	19	PFDoA	612.9 > 318.8	4.95e3	6.76e3		4.58	4.48	9.16	10.9	109.4
20	20	N-MeFOSA	512.1 > 168.9		3.08e4		4.56			(A)	
21	21	PFTrDA	662.9 > 618.9	6.41e4	6.76e3		4.78	4.66	118	11.7	117.0
22	22	PFTeDA	712.9 > 668.8	4.52e4	4.45e4		4.97	4.86	12.7	11.1	110.9
23	23	N-EtFOSA	526.1 > 168.9		3.80e4		5.03			(A)	
24	24	PFHxDA	812.8 > 768.9	2.74e2	2.09e4		5.37	5.24	0.0656		
25	25	PFODA	912.8 > 868.8	3.35e2	2.09e4		5.60	5.60	0.0800		
26	26	N-MeFOSE	616.1 > 58.9		4.35e4		5.30				
27	27	N-EtFOSE	630.1 > 58.9		4.17e4		5.40				
28	28	13C3-PFBA	216.1 > 171.8	1.65e4	1.87e4	0.906	1.90	1.90	11.1	12.2	97.6
29	29	13C3-PFPeA	266 > 221.8	3.00e4	4.18e4	0.284	2.99	2.94	3.59	12.6	101.1
30	30	13C3-PFBS	302 > 98.8	3.50e3	4.18e4	0.033	3.15	3.10	0.418	12.7	101.8
31	31	13C2-PFHxA	315 > 269.8	1.21e4	4.18e4	0.304	3.35	3.30	1.44	4.75	94.9

70-130

50-150

DM 8/11/17

(A) Not present in ICV standard. DM 8/11/17

Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	4.43e4	4.18e4	0.384	3.61	3.55	5.29	13.8	110.2
33	33	18O2-PFHxS	403 > 102.6	3.78e3	8.56e3	0.417	3.68	3.62	5.52	13.2	105.8
34	34	13C2-6:2 FTS	429.1 > 408.9	1.08e4	6.07e4	0.202	3.80	3.75	2.22	11.0	88.1
35	35	13C2-PFOA	414.9 > 369.7	6.29e4	6.07e4	1.132	3.82	3.75	12.9	11.4	91.5
36	36	13C5-PFNA	468.2 > 422.9	5.49e4	6.37e4	0.946	4.02	3.95	10.8	11.4	91.0
37	37	13C8-PFOSA	506.1 > 77.7	7.39e3	6.42e4	0.119	4.08	3.96	1.44	12.0	96.4
38	38	13C8-PFOS	507 > 79.9	1.10e4	1.05e4	1.040	4.07	4.01	13.1	12.6	101.1
39	39	13C2-PFDA	515.1 > 469.9	5.29e4	5.81e4	0.971	4.21	4.13	11.4	11.7	93.9
40	40	13C2-8:2 FTS	529.1 > 508.7	7.56e3	5.81e4	0.140	4.20	4.12	1.63	11.6	92.8
41	41	d3-N-MeFOSAA	573.3 > 419	1.27e4	6.42e4	0.018	4.23	4.16	2.47	139	85.4
42	42	d5-N-EtFOSAA	589.3 > 419	1.37e4	6.42e4	0.018	4.30	4.22	2.67	146	90.1
43	43	13C2-PFUnA	565 > 519.8	6.22e4	6.42e4	1.085	4.38	4.30	12.1	11.1	89.2
44	44	13C2-PFDoA	615 > 569.7	6.76e3	6.42e4	0.123	4.58	4.48	1.32	10.7	85.5
45	45	d3-N-MeFOSA	515.2 > 168.9	3.08e4	6.42e4	0.043	4.56	4.53	5.99	138	92.3
46	46	13C2-PFTeDA	714.8 > 669.6	4.45e4	6.42e4	0.798	4.97	4.86	8.67	10.9	86.9
47	47	d5-N-ETFOSA	531.1 > 168.9	3.80e4	6.42e4	0.056	5.03	4.97	7.40	133	88.6
48	48	13C2-PFHxDA	815 > 769.7	2.09e4	6.42e4	0.926	5.37	5.24	4.07	4.40	87.9
49	49	d7-N-MeFOSE	623.1 > 58.9	4.35e4	6.42e4	0.059	5.30	5.24	8.46	142	94.9
50	50	d9-N-EtFOSE	639.2 > 58.8	4.17e4	6.42e4	0.059	5.40	5.41	8.12	137	91.1
51	51	13C4-PFBA	217 > 171.8	1.87e4	1.87e4	1.000	1.90	1.90	12.5	12.5	100.0
52	52	13C5-PFHxA	318 > 272.9	4.18e4	4.18e4	1.000	3.35	3.30	5.00	5.00	100.0
53	53	13C3-PFHxS	401.9 > 79.9	8.56e3	8.56e3	1.000	3.68	3.62	12.5	12.5	100.0
54	54	13C8-PFOA	421.3 > 376	6.07e4	6.07e4	1.000	3.82	3.76	12.5	12.5	100.0
55	55	13C9-PFNA	472.2 > 426.9	6.37e4	6.37e4	1.000	4.02	3.95	12.5	12.5	100.0
56	56	13C4-PFOS	503 > 79.9	1.05e4	1.05e4	1.000	4.07	4.01	12.5	12.5	100.0
57	57	13C6-PFDA	519.1 > 473.7	5.81e4	5.81e4	1.000	4.21	4.13	12.5	12.5	100.0
58	58	13C7-PFUnA	570.1 > 524.8	6.42e4	6.42e4	1.000	4.38	4.30	12.5	12.5	100.0

80-150

(B) out of window, not used. ah 8/11/17

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

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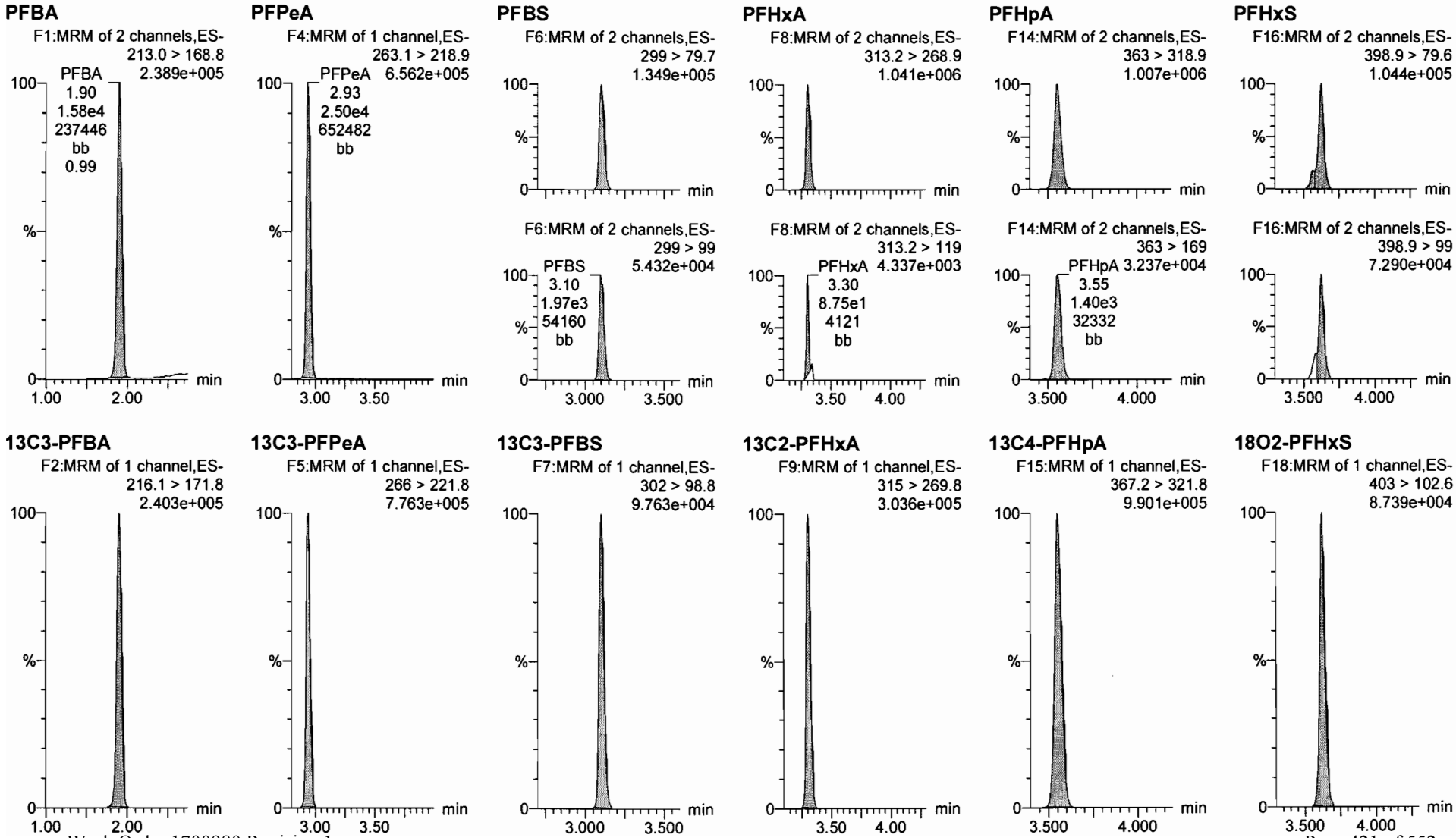
Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020



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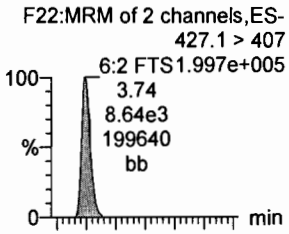
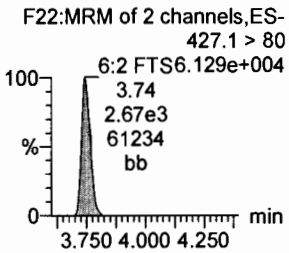
Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

6:2 FTS





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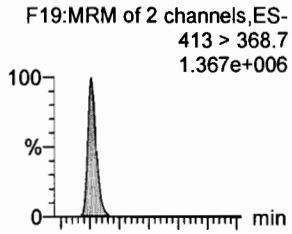

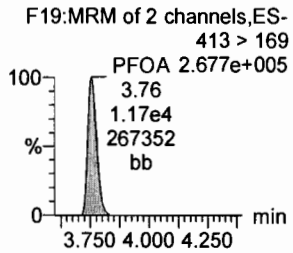

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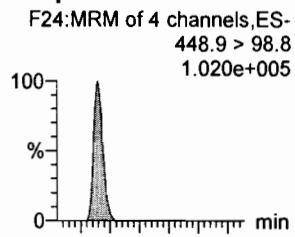

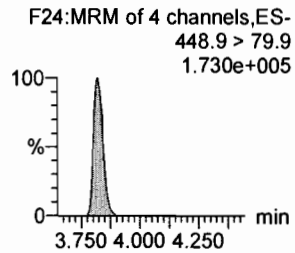

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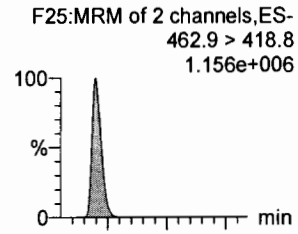

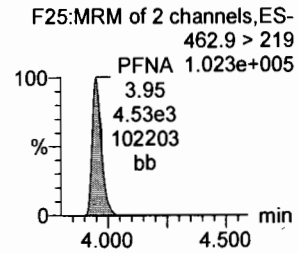

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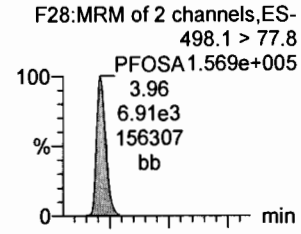

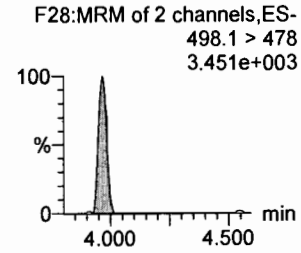

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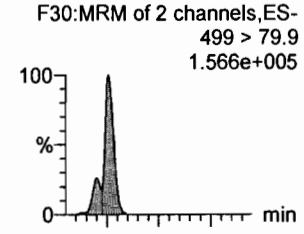
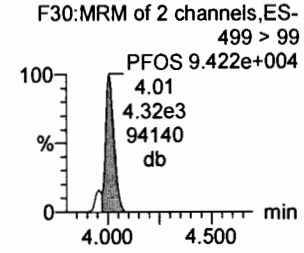
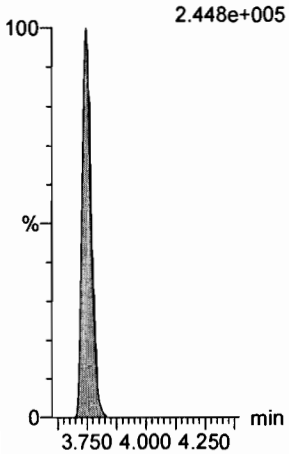
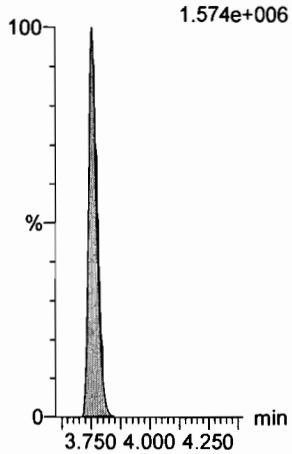




13C2-6:2 FTS



13C2-PFOA



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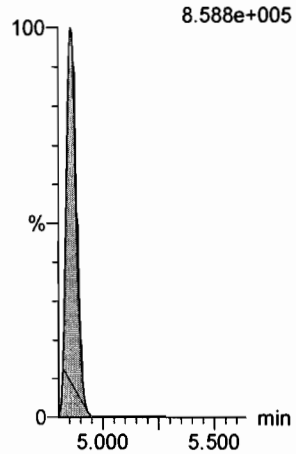

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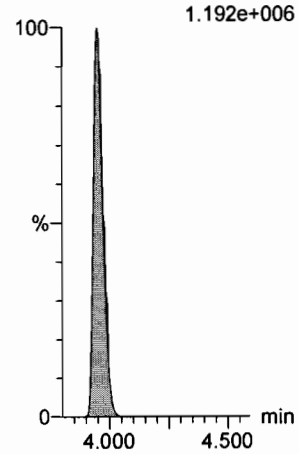

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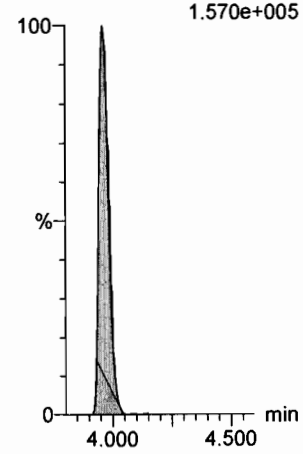

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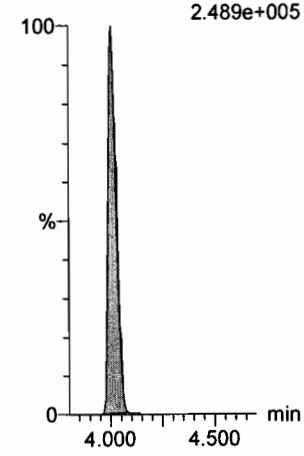


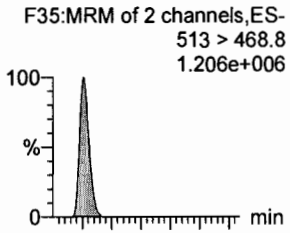
Vista Analytical Laboratory

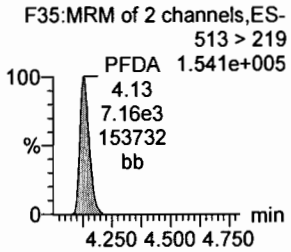
Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

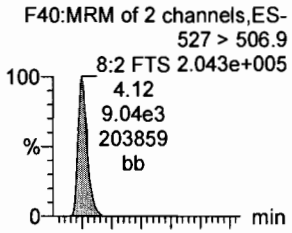
Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

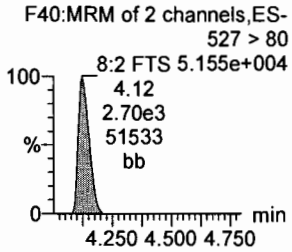
PFDA





8:2 FTS





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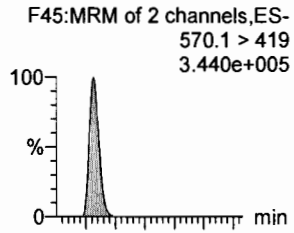

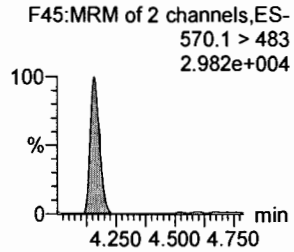

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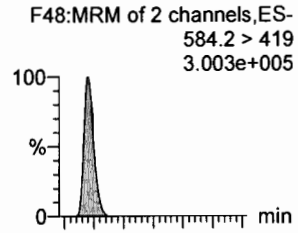

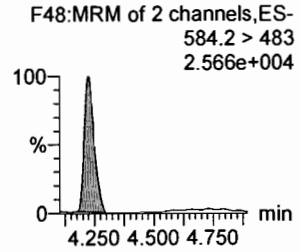

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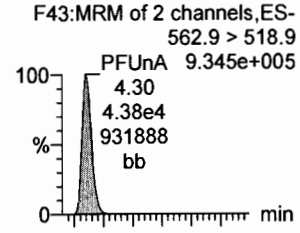

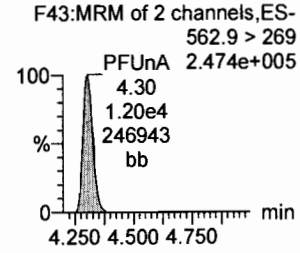

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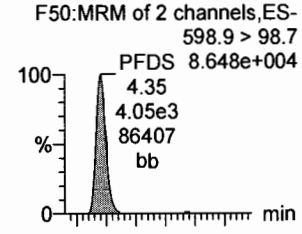

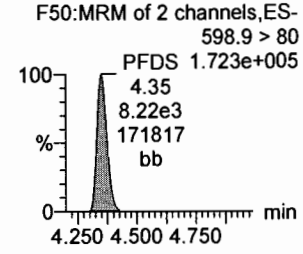

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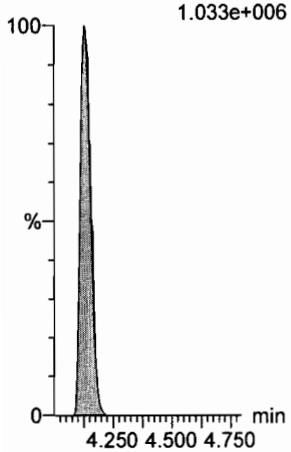
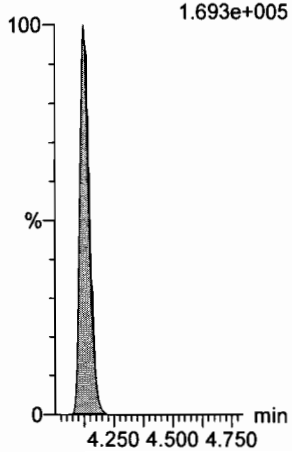


13C2-8:2 FTS



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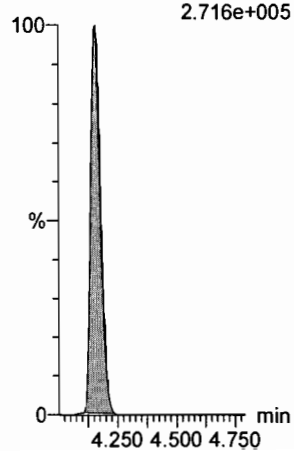

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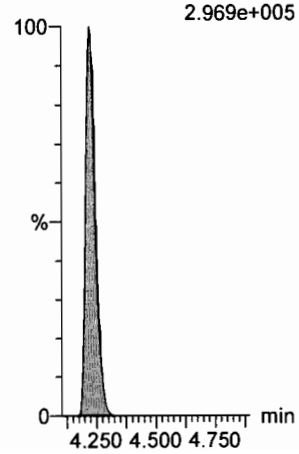

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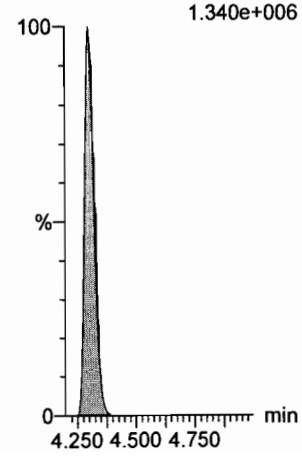

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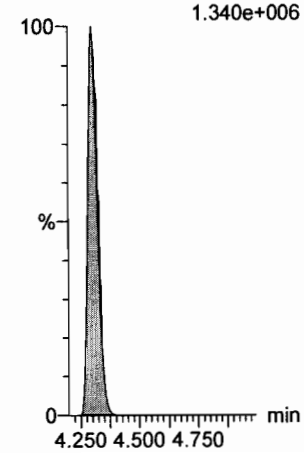

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Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
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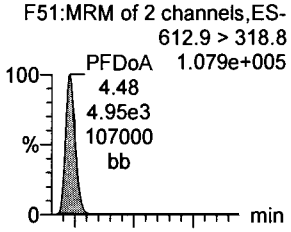
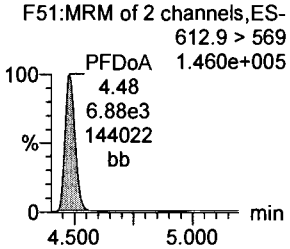
Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

PFDoA





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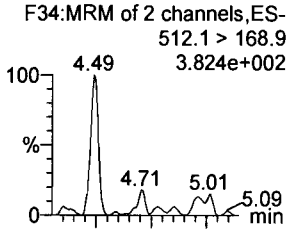
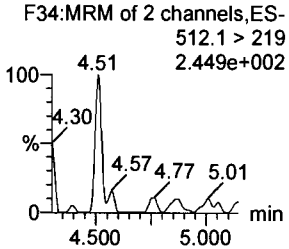
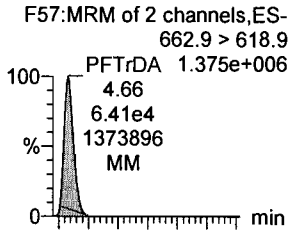
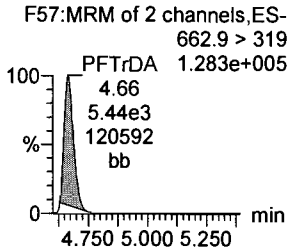


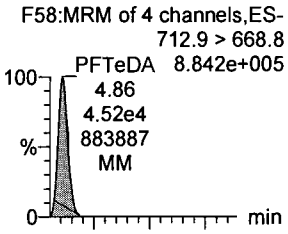


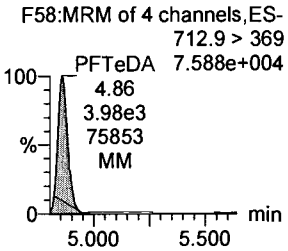
PFTrDA



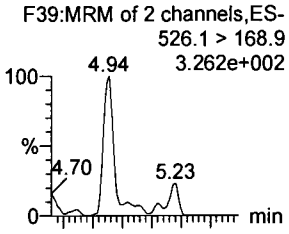


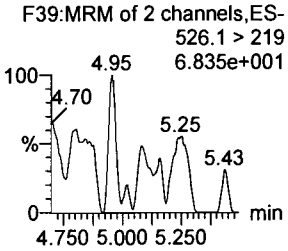
PFTeDA



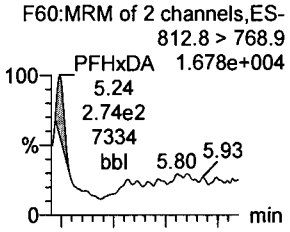


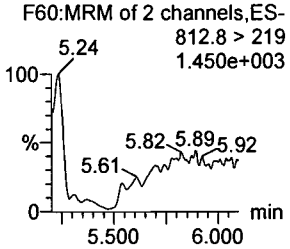
N-EtFOSA



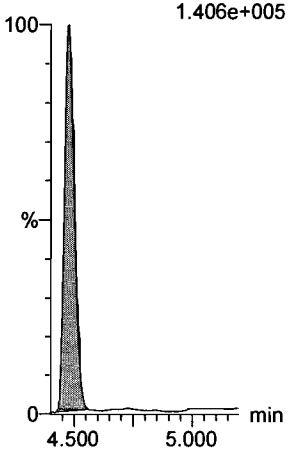


PFHxDA

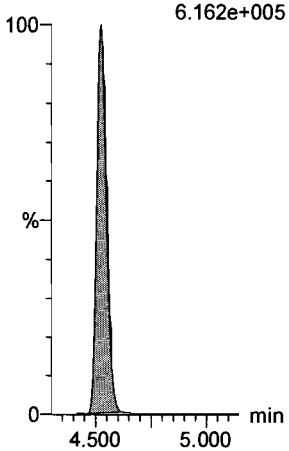




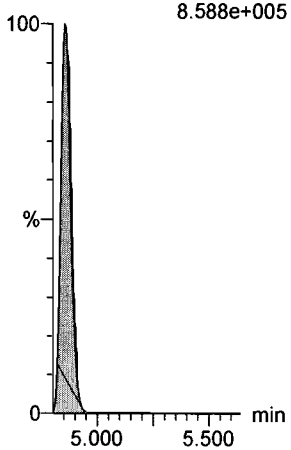
13C2-PFDoA



d3-N-MeFOSA



13C2-PFTeDA



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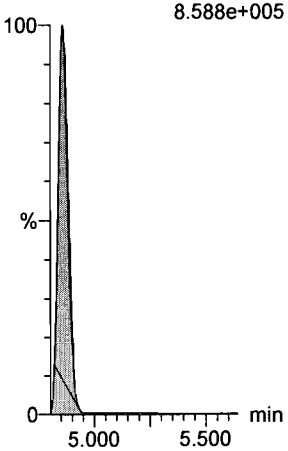
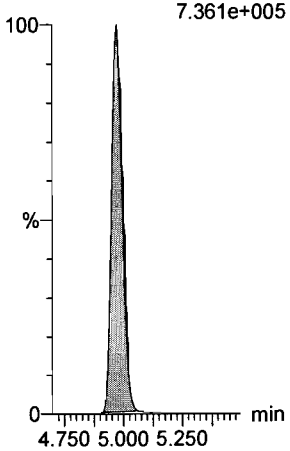
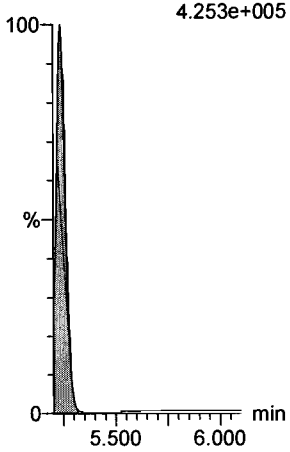


d5-N-ETFOSA



13C2-PFHxDA

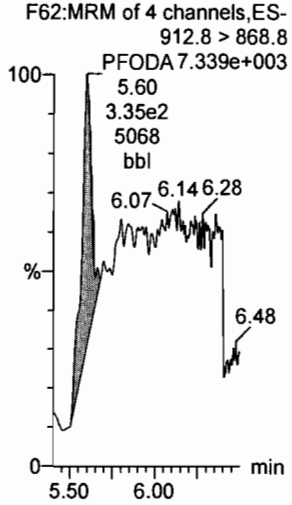


Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

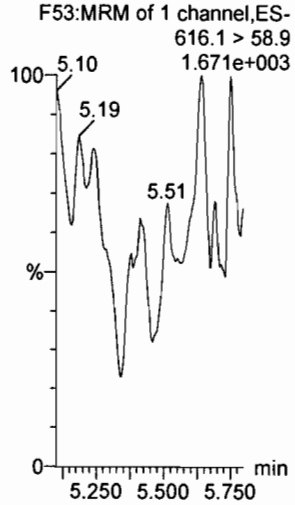
Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

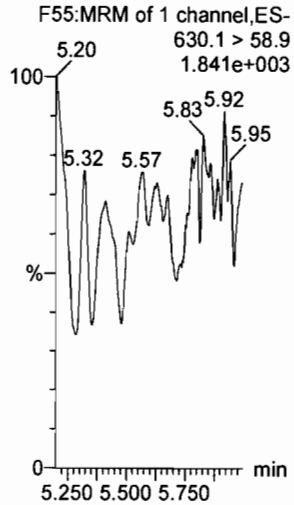
PFODA



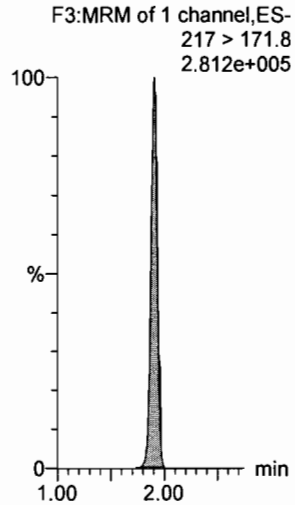
N-MeFOSE



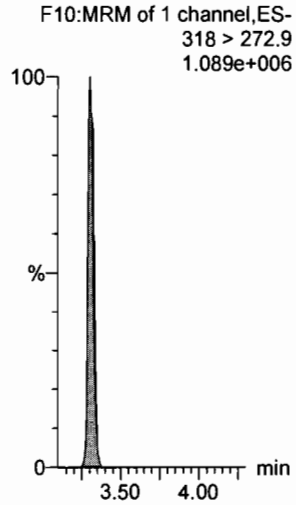
N-EtFOSE



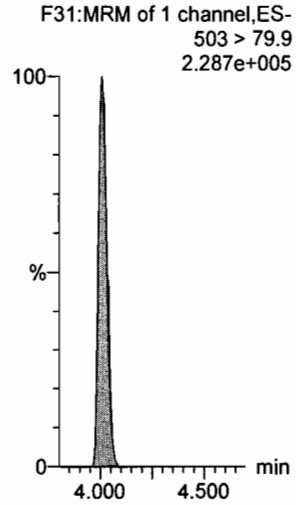
13C4-PFBA



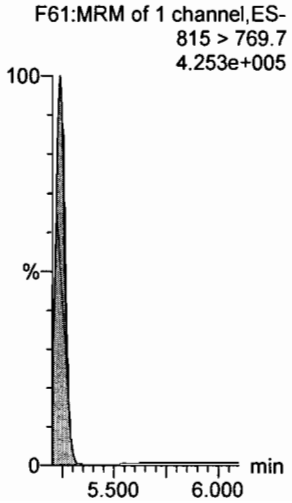
13C5-PFHxA



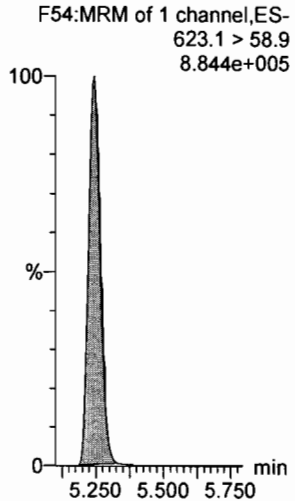
13C4-PFOS



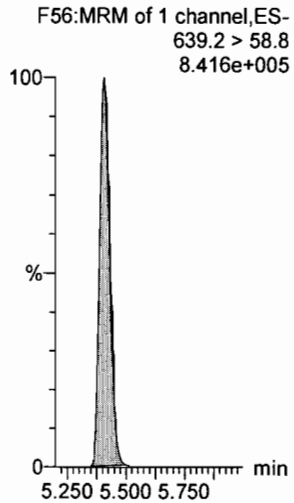
13C2-PFHxDA



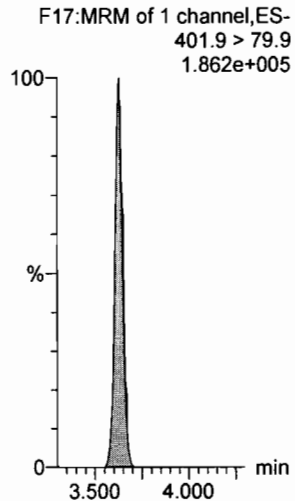
d7-N-MeFOSE



d9-N-EtFOSE



13C3-PFHxS



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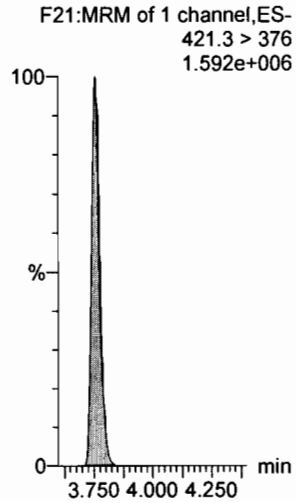
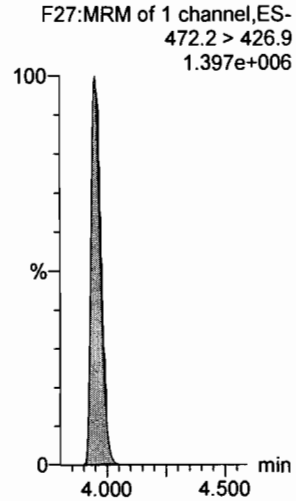


13C9-PFNA

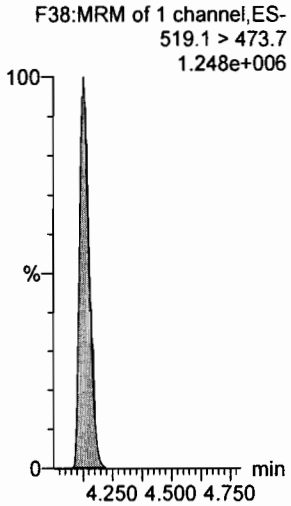


Dataset: U:\Q4.PRO\results\170810M1\170810M2-13.qld

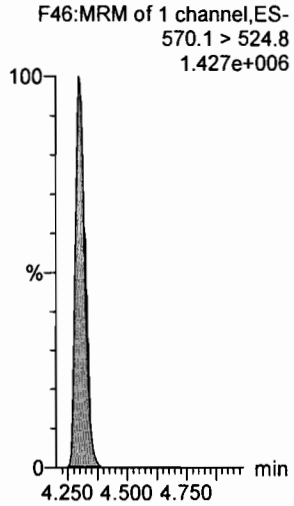
Last Altered: Friday, August 11, 2017 10:32:47 Pacific Daylight Time
Printed: Friday, August 11, 2017 10:35:02 Pacific Daylight Time

Name: 170810M2_13, Date: 10-Aug-2017, Time: 22:30:29, ID: ICV170810M2-1 PFC ICV 17H1020, Description: PFC ICV 17H1020

13C6-PFDA



13C7-PFUnA



Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:53:36 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

JAM 8/22/17

AC 8/22/17

Compound name: PFBA
Coefficient of Determination: R^2 = 0.999923
Calibration curve: -0.000220672 * x^2 + 1.12638 * x + 0.0472253
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	1.29	380.267	13067.521	0.364	0.3	12.4	NO	1.000	NO	MM
2	2	170822M1_3	Standard	0.500	1.28	660.886	13256.519	0.623	0.5	2.3	NO	1.000	NO	MM
3	3	170822M1_4	Standard	1.000	1.28	1429.734	14789.779	1.208	1.0	3.1	NO	1.000	NO	bb
4	4	170822M1_5	Standard	2.000	1.29	3387.669	18004.955	2.352	2.0	2.3	NO	1.000	NO	bb
5	5	170822M1_6	Standard	5.000	1.29	5908.208	13299.712	5.553	4.9	-2.1	NO	1.000	NO	bb
6	6	170822M1_7	Standard	10.000	1.29	12499.773	13964.735	11.189	9.9	-0.9	NO	1.000	NO	bb
7	7	170822M1_8	Standard	50.000	1.31	63093.266	14286.257	55.205	49.4	-1.1	NO	1.000	NO	bb
8	8	170822M1_9	Standard	100.000	1.29	131088.719	14706.023	111.424	100.9	0.9	NO	1.000	NO	bb
9	9	170822M1_10	Standard	250.000	1.29	297745.750	13908.182	267.599	249.8	-0.1	NO	1.000	NO	bb

Compound name: PFPeA
Correlation coefficient: r = 0.999894, r^2 = 0.999789
Calibration curve: 1.00098 * x + 0.0709825
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	2.57	595.978	24274.268	0.307	0.2	-5.7	NO	1.000	NO	MM
2	2	170822M1_3	Standard	0.500	2.58	1095.118	24179.082	0.566	0.5	-1.1	NO	1.000	NO	bb
3	3	170822M1_4	Standard	1.000	2.58	2325.643	26701.146	1.089	1.0	1.7	NO	1.000	NO	bb
4	4	170822M1_5	Standard	2.000	2.58	5630.101	33247.730	2.117	2.0	2.2	NO	1.000	NO	bb
5	5	170822M1_6	Standard	5.000	2.58	10301.229	24976.352	5.155	5.1	1.6	NO	1.000	NO	bb
6	6	170822M1_7	Standard	10.000	2.58	21033.951	26505.270	9.920	9.8	-1.6	NO	1.000	NO	bb
7	7	170822M1_8	Standard	50.000	2.59	110692.063	26888.873	51.458	51.3	2.7	NO	1.000	NO	bb
8	8	170822M1_9	Standard	100.000	2.58	226356.016	27880.152	101.486	101.3	1.3	NO	1.000	NO	bb
9	9	170822M1_10	Standard	250.000	2.58	532048.188	26849.350	247.701	247.4	-1.0	NO	1.000	NO	bb

Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:51:03 Pacific Daylight Time

Compound name: PFBS
Correlation coefficient: r = 0.999650, r^2 = 0.999300
Calibration curve: 1.76272 * x + 0.100227
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	2.83	111.733	3000.536	0.465	0.2	-17.1	NO	0.999	NO	MM
2	2	170822M1_3	Standard	0.500	2.83	231.554	3033.199	0.954	0.5	-3.1	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	2.83	521.669	3379.104	1.930	1.0	3.8	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	2.84	1274.743	4248.800	3.750	2.1	3.5	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	2.83	2289.885	3062.776	9.346	5.2	4.9	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	2.83	4700.925	3206.250	18.327	10.3	3.4	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	2.84	24217.486	3288.393	92.057	52.2	4.3	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	2.83	48936.906	3390.379	180.426	102.3	2.3	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	2.84	108287.438	3134.862	431.787	244.9	-2.0	NO	0.999	NO	bb

Compound name: PFHxA
Correlation coefficient: r = 0.998474, r^2 = 0.996950
Calibration curve: 1.36799 * x + 0.175836
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.08	995.147	11270.520	0.441	0.2	-22.3	NO	0.997	NO	bb
2	2	170822M1_3	Standard	0.500	3.08	1869.287	11279.962	0.829	0.5	-4.6	NO	0.997	NO	bb
3	3	170822M1_4	Standard	1.000	3.08	3955.618	12558.775	1.575	1.0	2.3	NO	0.997	NO	bb
4	4	170822M1_5	Standard	2.000	3.09	9957.971	16346.858	3.046	2.1	4.9	NO	0.997	NO	bb
5	5	170822M1_6	Standard	5.000	3.09	17356.994	11863.096	7.316	5.2	4.4	NO	0.997	NO	bb
6	6	170822M1_7	Standard	10.000	3.09	35818.477	12075.572	14.831	10.7	7.1	NO	0.997	NO	bb
7	7	170822M1_8	Standard	50.000	3.09	184531.594	12792.715	72.124	52.6	5.2	NO	0.997	NO	bb
8	8	170822M1_9	Standard	100.000	3.09	384788.531	13075.690	147.139	107.4	7.4	NO	0.997	NO	bb
9	9	170822M1_10	Standard	250.000	3.09	873225.250	13346.744	327.130	239.0	-4.4	NO	0.997	NO	bb

Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:51:03 Pacific Daylight Time

Compound name: PFHpA
Correlation coefficient: r = 0.999748, r^2 = 0.999497
Calibration curve: 1.17138 * x + 0.135054
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.36	916.994	32438.938	0.353	0.2	-25.5	NO	0.999	NO	bb
2	2	170822M1_3	Standard	0.500	3.35	1825.541	32281.281	0.707	0.5	-2.4	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	3.36	3907.525	35665.227	1.370	1.1	5.4	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	3.36	9508.064	46179.301	2.574	2.1	4.1	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	3.36	16808.824	31500.809	6.670	5.6	11.6	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	3.36	34382.242	34796.133	12.351	10.4	4.3	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	3.36	181996.531	37591.008	60.519	51.5	3.1	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	3.37	345372.750	36552.297	118.109	100.7	0.7	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	3.36	812271.938	35123.180	289.080	246.7	-1.3	NO	0.999	NO	bb

Compound name: PFHxS
Coefficient of Determination: R^2 = 0.999663
Calibration curve: 0.000305292 * x^2 + 1.59136 * x + 0.0435455
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.43	81.333	3044.238	0.334	0.2	-27.0	NO	1.000	NO	MM
2	2	170822M1_3	Standard	0.500	3.43	254.300	2956.595	1.075	0.6	29.6	NO	1.000	NO	MM
3	3	170822M1_4	Standard	1.000	3.44	430.003	3403.024	1.579	1.0	-3.5	NO	1.000	NO	MM
4	4	170822M1_5	Standard	2.000	3.43	1005.758	4112.344	3.057	1.9	-5.3	NO	1.000	NO	MM
5	5	170822M1_6	Standard	5.000	3.44	2000.559	3118.308	8.019	5.0	0.1	NO	1.000	NO	MM
6	6	170822M1_7	Standard	10.000	3.44	3928.588	2887.481	17.007	10.6	6.4	NO	1.000	NO	MM
7	7	170822M1_8	Standard	50.000	3.44	21466.766	3300.477	81.302	50.6	1.1	NO	1.000	NO	MM
8	8	170822M1_9	Standard	100.000	3.44	41560.430	3256.946	159.507	98.4	-1.6	NO	1.000	NO	MM
9	9	170822M1_10	Standard	250.000	3.44	94323.070	2821.826	417.828	250.5	0.2	NO	1.000	NO	MM

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Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.999249
Calibration curve: -0.0032912 * x^2 + 1.08665 * x + 0.073737
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.56	216.980	9225.774	0.294	0.2	-18.9	NO	0.999	NO	bb
2	2	170822M1_3	Standard	0.500	3.55	493.246	9796.299	0.629	0.5	2.4	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	3.55	933.101	10053.516	1.160	1.0	0.3	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	3.56	2886.229	14220.885	2.537	2.3	14.1	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	3.56	4992.133	10973.442	5.687	5.2	5.0	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	3.56	9160.421	10976.921	10.431	9.8	-1.8	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	3.56	44227.941	12155.943	45.480	49.1	-1.8	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	3.56	78177.766	12828.711	76.175	100.8	0.8	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	3.56	158336.453	15032.745	131.660			NO	0.999	NO	bbXI

Compound name: PFOA
Correlation coefficient: r = 0.999478, r^2 = 0.998956
Calibration curve: 1.02019 * x + 0.124389
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.57	1533.765	57023.043	0.336	0.2	-16.9	NO	0.999	NO	bb
2	2	170822M1_3	Standard	0.500	3.56	2924.484	58105.078	0.629	0.5	-1.0	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	3.56	5126.133	58268.199	1.100	1.0	-4.4	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	3.57	14800.213	75996.234	2.434	2.3	13.2	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	3.57	26212.699	62872.992	5.211	5.0	-0.3	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	3.57	52077.594	59643.070	10.914	10.6	5.8	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	3.57	275612.813	66261.203	51.994	50.8	1.7	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	3.57	536039.938	62842.355	106.624	104.4	4.4	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	3.57	1163204.750	58374.754	249.081	244.0	-2.4	NO	0.999	NO	bb

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Compound name: PFHpS
Correlation coefficient: r = 0.996944, r^2 = 0.993897
Calibration curve: 0.0855351 * x + 0.0103243
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.62	45.872	57023.043	0.010			NO	0.994	NO	MMXI
2	2	170822M1_3	Standard	0.500	3.62	238.304	58105.078	0.051	0.5	-4.3	NO	0.994	NO	bb
3	3	170822M1_4	Standard	1.000	3.63	433.112	58268.199	0.093	1.0	-3.4	NO	0.994	NO	bb
4	4	170822M1_5	Standard	2.000	3.63	1039.107	75996.234	0.171	1.9	-6.1	NO	0.994	NO	bb
5	5	170822M1_6	Standard	5.000	3.63	2402.113	62872.992	0.478	5.5	9.3	NO	0.994	NO	bb
6	6	170822M1_7	Standard	10.000	3.63	4784.611	59643.070	1.003	11.6	16.0	NO	0.994	NO	bb
7	7	170822M1_8	Standard	50.000	3.63	25175.416	66261.203	4.749	55.4	10.8	NO	0.994	NO	bb
8	8	170822M1_9	Standard	100.000	3.63	46501.410	62842.355	9.250	108.0	8.0	NO	0.994	NO	bb
9	9	170822M1_10	Standard	250.000	3.63	93795.258	58374.754	20.085	234.7	-6.1	NO	0.994	NO	bb

Compound name: PFNA
Correlation coefficient: r = 0.999386, r^2 = 0.998772
Calibration curve: 1.01614 * x + 0.123786
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.74	1945.500	67759.922	0.359	0.2	-7.4	NO	0.999	NO	bb
2	2	170822M1_3	Standard	0.500	3.74	3111.455	63188.738	0.616	0.5	-3.2	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	3.74	7522.184	81463.539	1.154	1.0	1.4	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	3.75	15764.017	94992.117	2.074	1.9	-4.0	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	3.75	28929.258	65684.609	5.505	5.3	5.9	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	3.75	59158.863	71275.195	10.375	10.1	0.9	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	3.75	257421.313	59996.332	53.633	52.7	5.3	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	3.75	606099.750	71688.164	105.683	103.9	3.9	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	3.75	1262047.875	63811.574	247.222	243.2	-2.7	NO	0.999	NO	bb

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Compound name: PFOSA
Correlation coefficient: r = 0.999425, r^2 = 0.998850
Calibration curve: 1.03039 * x + 0.0764336
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.75	266.676	9702.039	0.344	0.3	3.7	NO	0.999	NO	bb
2	2	170822M1_3	Standard	0.500	3.75	366.168	9544.876	0.480	0.4	-21.8	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	3.75	1010.404	10927.972	1.156	1.0	4.7	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	3.76	2416.755	12923.007	2.338	2.2	9.7	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	3.75	4011.328	9572.224	5.238	5.0	0.2	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	3.75	7858.740	9759.555	10.065	9.7	-3.1	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	3.76	37564.441	8644.814	54.316	52.6	5.3	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	3.76	79114.313	9258.590	106.812	103.6	3.6	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	3.76	162592.078	8083.871	251.414	243.9	-2.4	NO	0.999	NO	bb

Compound name: PFOS
Coefficient of Determination: R^2 = 0.998812
Calibration curve: -0.000260446 * x^2 + 1.07976 * x + 0.0109438
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.80	304.817	11719.411	0.325	0.3	16.4	NO	0.999	NO	MM
2	2	170822M1_3	Standard	0.500	3.79	494.383	11773.024	0.525	0.5	-4.8	NO	0.999	NO	MM
3	3	170822M1_4	Standard	1.000	3.80	1293.787	14197.065	1.139	1.0	4.5	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	3.80	2934.709	15967.976	2.297	2.1	5.9	NO	0.999	NO	MM
5	5	170822M1_6	Standard	5.000	3.80	4571.310	11977.875	4.771	4.4	-11.7	NO	0.999	NO	MM
6	6	170822M1_7	Standard	10.000	3.80	9878.791	12154.132	10.160	9.4	-5.8	NO	0.999	NO	MM
7	7	170822M1_8	Standard	50.000	3.80	45829.488	11262.315	50.866	47.6	-4.7	NO	0.999	NO	MM
8	8	170822M1_9	Standard	100.000	3.80	102140.969	11565.001	110.399	104.9	4.9	NO	0.999	NO	MM
9	9	170822M1_10	Standard	250.000	3.80	220469.328	10927.293	252.200	248.4	-0.6	NO	0.999	NO	MM

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Compound name: PFDA
Correlation coefficient: r = 0.998581, r^2 = 0.997164
Calibration curve: 1.07992 * x + 0.110961
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.91	1701.995	65492.855	0.325	0.2	-20.8	NO	0.997	NO	bb
2	2	170822M1_3	Standard	0.500	3.91	3436.686	72981.016	0.589	0.4	-11.5	NO	0.997	NO	bb
3	3	170822M1_4	Standard	1.000	3.91	8527.015	84367.859	1.263	1.1	6.7	NO	0.997	NO	bb
4	4	170822M1_5	Standard	2.000	3.91	16686.041	82753.391	2.520	2.2	11.6	NO	0.997	NO	bb
5	5	170822M1_6	Standard	5.000	3.92	33498.602	70537.492	5.936	5.4	7.9	NO	0.997	NO	bb
6	6	170822M1_7	Standard	10.000	3.91	57281.957	67757.469	10.567	9.7	-3.2	NO	0.997	NO	bb
7	7	170822M1_8	Standard	50.000	3.92	301236.063	65062.473	57.874	53.5	7.0	NO	0.997	NO	bb
8	8	170822M1_9	Standard	100.000	3.91	673059.688	73129.266	115.046	106.4	6.4	NO	0.997	NO	bb
9	9	170822M1_10	Standard	250.000	3.92	1510962.125	72896.570	259.093	239.8	-4.1	NO	0.997	NO	bb

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.997813
Calibration curve: -0.00362349 * x^2 + 1.38443 * x + 0.0732214
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.92	251.750	7516.377	0.419	0.2	-0.1	NO	0.998	NO	bb
2	2	170822M1_3	Standard	0.500	3.90	460.143	7155.346	0.804	0.5	5.7	NO	0.998	NO	bb
3	3	170822M1_4	Standard	1.000	3.91	1035.339	8394.511	1.542	1.1	6.4	NO	0.998	NO	bb
4	4	170822M1_5	Standard	2.000	3.91	2390.873	10288.313	2.905	2.1	2.8	NO	0.998	NO	bb
5	5	170822M1_6	Standard	5.000	3.92	4259.235	7778.414	6.845	5.0	-0.9	NO	0.998	NO	bb
6	6	170822M1_7	Standard	10.000	3.91	8800.892	7320.282	15.028	11.1	11.3	NO	0.998	NO	bb
7	7	170822M1_8	Standard	50.000	3.92	33811.430	7376.407	57.297	47.2	-5.7	NO	0.998	NO	bb
8	8	170822M1_9	Standard	100.000	3.91	69622.766	8400.071	103.604	102.0	2.0	NO	0.998	NO	bb
9	9	170822M1_10	Standard	250.000	3.92	150270.797	11634.532	161.449			NO	0.998	NO	bbXI

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Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.999646
Calibration curve: -0.00630827 * x^2 + 18.9068 * x + 0.242877
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	3.94	415.919	13890.228	4.866	0.2	-2.2	NO	1.000	NO	bb
2	2	170822M1_3	Standard	0.500	3.94	874.043	14996.310	9.471	0.5	-2.4	NO	1.000	NO	bb
3	3	170822M1_4	Standard	1.000	3.94	2164.345	17579.518	20.007	1.0	4.6	NO	1.000	NO	bb
4	4	170822M1_5	Standard	2.000	3.95	4581.021	20041.094	37.144	2.0	-2.3	NO	1.000	NO	bb
5	5	170822M1_6	Standard	5.000	3.95	8631.677	14381.390	97.532	5.2	3.1	NO	1.000	NO	bb
6	6	170822M1_7	Standard	10.000	3.95	17916.271	15261.376	190.769	10.1	1.1	NO	1.000	NO	bb
7	7	170822M1_8	Standard	50.000	3.95	78030.211	14183.573	893.986	48.0	-3.9	NO	1.000	NO	bb
8	8	170822M1_9	Standard	100.000	3.95	169103.438	14709.819	1868.093	102.3	2.3	NO	1.000	NO	bb
9	9	170822M1_10	Standard	250.000	3.96	367489.063	13811.823	4323.613	249.4	-0.2	NO	1.000	NO	bb

Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.999904
Calibration curve: -0.000711501 * x^2 + 15.2772 * x + 0.0430846
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	4.01	323.692	13077.519	4.022	0.3	4.2	NO	1.000	NO	bb
2	2	170822M1_3	Standard	0.500	4.01	703.422	14505.178	7.880	0.5	2.6	NO	1.000	NO	bb
3	3	170822M1_4	Standard	1.000	4.01	1492.488	16585.809	14.623	1.0	-4.6	NO	1.000	NO	bb
4	4	170822M1_5	Standard	2.000	4.02	3529.501	18969.387	30.235	2.0	-1.2	NO	1.000	NO	bb
5	5	170822M1_6	Standard	5.000	4.02	6586.955	13884.409	77.092	5.0	0.9	NO	1.000	NO	bb
6	6	170822M1_7	Standard	10.000	4.01	14284.747	15205.719	152.658	10.0	-0.1	NO	1.000	NO	bb
7	7	170822M1_8	Standard	50.000	4.02	66589.508	14475.974	747.500	49.0	-1.9	NO	1.000	NO	bb
8	8	170822M1_9	Standard	100.000	4.02	145965.438	15398.876	1540.332	101.3	1.3	NO	1.000	NO	bb
9	9	170822M1_10	Standard	250.000	4.02	331119.188	14272.648	3769.929	249.7	-0.1	NO	1.000	NO	bb

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Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999376
Calibration curve: -0.000588077 * x^2 + 0.801719 * x + 0.0128746
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	4.07	1441.643	78792.375	0.229	0.3	7.7	NO	0.999	NO	MM
2	2	170822M1_3	Standard	0.500	4.08	2730.750	78660.547	0.434	0.5	5.1	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	4.08	5627.024	82463.398	0.853	1.0	4.9	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	4.08	12732.543	99679.305	1.597	2.0	-1.1	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	4.08	21666.230	76737.672	3.529	4.4	-12.0	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	4.08	44563.027	75797.781	7.349	9.2	-7.9	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	4.08	205952.234	64419.211	39.963	51.8	3.6	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	4.08	451591.969	76072.414	74.204	99.9	-0.1	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	4.09	1014051.625	77529.203	163.495	249.6	-0.2	NO	0.999	NO	bb

Compound name: PFDS
Coefficient of Determination: R^2 = 0.999184
Calibration curve: -8.27061e-005 * x^2 + 0.0810376 * x + -0.00854002
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	4.13	80.404	78792.375	0.013	0.3	5.1	NO	0.999	NO	bb
2	2	170822M1_3	Standard	0.500	4.14	169.353	78660.547	0.027	0.4	-12.5	NO	0.999	NO	bb
3	3	170822M1_4	Standard	1.000	4.13	568.831	82463.398	0.086	1.2	17.1	NO	0.999	NO	bb
4	4	170822M1_5	Standard	2.000	4.13	1215.496	99679.305	0.152	2.0	-0.5	NO	0.999	NO	bb
5	5	170822M1_6	Standard	5.000	4.13	2205.686	76737.672	0.359	4.6	-8.8	NO	0.999	NO	bb
6	6	170822M1_7	Standard	10.000	4.13	4654.520	75797.781	0.768	9.7	-3.3	NO	0.999	NO	bb
7	7	170822M1_8	Standard	50.000	4.13	20704.266	64419.211	4.017	52.5	5.0	NO	0.999	NO	bb
8	8	170822M1_9	Standard	100.000	4.13	43277.129	76072.414	7.111	97.6	-2.4	NO	0.999	NO	bb
9	9	170822M1_10	Standard	250.000	4.14	93717.633	77529.203	15.110	250.7	0.3	NO	0.999	NO	bb

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Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999606
Calibration curve: -0.000290067 * x^2 + 0.829421 * x + 0.124205
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	4.24	212.119	7204.947	0.368	0.3	17.6	NO	1.000	NO	bb
2	2	170822M1_3	Standard	0.500	4.25	251.945	6895.161	0.457	0.4	-19.8	NO	1.000	NO	bb
3	3	170822M1_4	Standard	1.000	4.23	632.489	8261.931	0.957	1.0	0.4	NO	1.000	NO	bb
4	4	170822M1_5	Standard	2.000	4.24	1397.470	9225.597	1.893	2.1	6.7	NO	1.000	NO	bb
5	5	170822M1_6	Standard	5.000	4.24	2376.229	7364.974	4.033	4.7	-5.6	NO	1.000	NO	bb
6	6	170822M1_7	Standard	10.000	4.24	4689.018	7067.033	8.294	9.9	-1.2	NO	1.000	NO	bb
7	7	170822M1_8	Standard	50.000	4.24	22472.377	6645.604	42.269	51.7	3.5	NO	1.000	NO	bb
8	8	170822M1_9	Standard	100.000	4.24	50376.598	7999.761	78.716	98.1	-1.9	NO	1.000	NO	bb
9	9	170822M1_10	Standard	250.000	4.25	112997.328	7447.441	189.658	250.4	0.2	NO	1.000	NO	bb

Compound name: N-MeFOSA
Correlation coefficient: r = 0.999473, r^2 = 0.998947
Calibration curve: 0.993024 * x + 0.269269
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	1.250	4.19	447.249	40569.238	1.654	1.4	11.5	NO	0.999	NO	bb
2	2	170822M1_3	Standard	2.500	4.19	610.807	39756.762	2.305	2.0	-18.0	NO	0.999	NO	bb
3	3	170822M1_4	Standard	5.000	4.19	1633.265	43985.508	5.570	5.3	6.8	NO	0.999	NO	bb
4	4	170822M1_5	Standard	10.000	4.19	3907.598	54514.090	10.752	10.6	5.6	NO	0.999	NO	bb
5	5	170822M1_6	Standard	25.000	4.19	7106.610	39168.520	27.216	27.1	8.5	NO	0.999	NO	bb
6	6	170822M1_7	Standard	50.000	4.19	14046.674	40985.344	51.409	51.5	3.0	NO	0.999	NO	bb
7	7	170822M1_8	Standard	250.000	4.19	67256.734	39447.754	255.744	257.3	2.9	NO	0.999	NO	bb
8	8	170822M1_9	Standard	500.000	4.20	152912.359	44442.816	516.098	519.5	3.9	NO	0.999	NO	bb
9	9	170822M1_10	Standard	1250.000	4.20	358866.813	44457.422	1210.822	1219.1	-2.5	NO	0.999	NO	bb

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Compound name: PFTrDA
Correlation coefficient: r = 0.998448, r^2 = 0.996898
Calibration curve: 9.57064 * x + 1.03453
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	4.40	1817.575	7204.947	3.153	0.2	-11.4	NO	0.997	NO	bb
2	2	170822M1_3	Standard	0.500	4.41	3260.710	6895.161	5.911	0.5	1.9	NO	0.997	NO	bb
3	3	170822M1_4	Standard	1.000	4.40	7586.750	8261.931	11.478	1.1	9.1	NO	0.997	NO	bb
4	4	170822M1_5	Standard	2.000	4.41	17516.588	9225.597	23.734	2.4	18.6	NO	0.997	NO	bb
5	5	170822M1_6	Standard	5.000	4.41	30200.426	7364.974	51.257	5.2	5.0	NO	0.997	NO	bb
6	6	170822M1_7	Standard	10.000	4.41	60421.102	7067.033	106.871	11.1	10.6	NO	0.997	NO	bb
7	7	170822M1_8	Standard	50.000	4.41	283331.938	6645.604	532.931	55.6	11.2	NO	0.997	NO	bb
8	8	170822M1_9	Standard	100.000	4.41	626473.438	7999.761	978.894	102.2	2.2	NO	0.997	NO	bb
9	9	170822M1_10	Standard	250.000	4.42	1371989.500	7447.441	2302.787	240.5	-3.8	NO	0.997	NO	bb

Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999902
Calibration curve: -0.00082217 * x^2 + 1.21043 * x + 0.0818158
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	4.58	1203.989	41495.012	0.363	0.2	-7.2	NO	1.000	NO	bb
2	2	170822M1_3	Standard	0.500	4.58	2209.707	41356.441	0.668	0.5	-3.1	NO	1.000	NO	bb
3	3	170822M1_4	Standard	1.000	4.58	4984.387	46791.598	1.332	1.0	3.3	NO	1.000	NO	bb
4	4	170822M1_5	Standard	2.000	4.58	11216.241	53655.762	2.613	2.1	4.7	NO	1.000	NO	bb
5	5	170822M1_6	Standard	5.000	4.59	19902.180	41225.996	6.034	4.9	-1.3	NO	1.000	NO	bb
6	6	170822M1_7	Standard	10.000	4.59	38975.137	38543.859	12.640	10.4	4.5	NO	1.000	NO	bb
7	7	170822M1_8	Standard	50.000	4.59	183681.859	39412.754	58.256	49.7	-0.5	NO	1.000	NO	bb
8	8	170822M1_9	Standard	100.000	4.59	409099.469	45504.953	112.378	99.5	-0.5	NO	1.000	NO	bb
9	9	170822M1_10	Standard	250.000	4.59	926329.313	46030.629	251.552	250.3	0.1	NO	1.000	NO	bb

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Compound name: N-EtFOSA
Correlation coefficient: r = 0.998426, r^2 = 0.996855
Calibration curve: 0.857593 * x + 0.578749
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	1.250	4.76	590.995	56494.754	1.569	1.2	-7.6	NO	0.997	NO	bb
2	2	170822M1_3	Standard	2.500	4.77	982.962	55959.801	2.635	2.4	-4.1	NO	0.997	NO	bb
3	3	170822M1_4	Standard	5.000	4.76	2372.061	60781.070	5.854	6.2	23.0	NO	0.997	NO	bb
4	4	170822M1_5	Standard	10.000	4.77	5365.187	76407.625	10.533	11.6	16.1	NO	0.997	NO	bb
5	5	170822M1_6	Standard	25.000	4.77	8851.896	55124.234	24.087	27.4	9.6	NO	0.997	NO	bb
6	6	170822M1_7	Standard	50.000	4.77	17978.355	56971.250	47.335	54.5	9.0	NO	0.997	NO	bb
7	7	170822M1_8	Standard	250.000	4.77	85441.508	55871.590	229.387	266.8	6.7	NO	0.997	NO	bb
8	8	170822M1_9	Standard	500.000	4.77	191833.484	63527.047	452.957	527.5	5.5	NO	0.997	NO	bb
9	9	170822M1_10	Standard	1250.000	4.78	443196.031	64767.172	1026.437	1196.2	-4.3	NO	0.997	NO	bb

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999930
Calibration curve: -0.00103788 * x^2 + 1.40897 * x + 0.187282
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	4.95	2286.926	22137.955	0.517	0.2	-6.5	NO	1.000	NO	bb
2	2	170822M1_3	Standard	0.500	4.95	3775.519	21215.932	0.890	0.5	-0.2	NO	1.000	NO	bb
3	3	170822M1_4	Standard	1.000	4.95	8343.549	25562.146	1.632	1.0	2.6	NO	1.000	NO	bb
4	4	170822M1_5	Standard	2.000	4.95	17598.850	28134.393	3.128	2.1	4.5	NO	1.000	NO	bb
5	5	170822M1_6	Standard	5.000	4.96	30862.842	21238.021	7.266	5.0	0.9	NO	1.000	NO	bb
6	6	170822M1_7	Standard	10.000	4.95	60268.098	21372.596	14.099	9.9	-0.5	NO	1.000	NO	bb
7	7	170822M1_8	Standard	50.000	4.96	285027.188	21245.047	67.081	49.3	-1.5	NO	1.000	NO	bb
8	8	170822M1_9	Standard	100.000	4.96	640108.125	24287.518	131.777	100.9	0.9	NO	1.000	NO	bb
9	9	170822M1_10	Standard	250.000	4.96	1381756.000	24045.041	287.327	249.7	-0.1	NO	1.000	NO	bb

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Compound name: PFODA
Correlation coefficient: r = 0.997978, r^2 = 0.995961
Calibration curve: 1.03071 * x + 0.12318
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	0.250	5.32	1492.644	22137.955	0.337	0.2	-17.0	NO	0.996	NO	bb
2	2	170822M1_3	Standard	0.500	5.32	2820.699	21215.932	0.665	0.5	5.1	NO	0.996	NO	bb
3	3	170822M1_4	Standard	1.000	5.32	6364.614	25562.146	1.245	1.1	8.8	NO	0.996	NO	bb
4	4	170822M1_5	Standard	2.000	5.32	14033.820	28134.393	2.494	2.3	15.0	NO	0.996	NO	bb
5	5	170822M1_6	Standard	5.000	5.33	25196.096	21238.021	5.932	5.6	12.7	NO	0.996	NO	bb
6	6	170822M1_7	Standard	10.000	5.33	50539.266	21372.596	11.823	11.4	13.5	NO	0.996	NO	bb
7	7	170822M1_8	Standard	50.000	5.33	240032.578	21245.047	56.491	54.7	9.4	NO	0.996	NO	bb
8	8	170822M1_9	Standard	100.000	5.33	526763.750	24287.518	108.443	105.1	5.1	NO	0.996	NO	bb
9	9	170822M1_10	Standard	250.000	5.33	1179588.000	24045.041	245.287	237.9	-4.9	NO	0.996	NO	bb

Compound name: N-MeFOSE
Correlation coefficient: r = 0.999880, r^2 = 0.999759
Calibration curve: 0.989741 * x + 0.531756
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	1.250	5.41	657.711	62425.852	1.580	1.1	-15.2	NO	1.000	NO	bb
2	2	170822M1_3	Standard	2.500	5.41	1217.348	62192.980	2.936	2.4	-2.8	NO	1.000	NO	MM
3	3	170822M1_4	Standard	5.000	5.41	2631.541	68193.609	5.788	5.3	6.2	NO	1.000	NO	bb
4	4	170822M1_5	Standard	10.000	5.41	5969.395	82829.117	10.810	10.4	3.9	NO	1.000	NO	bb
5	5	170822M1_6	Standard	25.000	5.41	10630.090	60697.469	26.270	26.0	4.0	NO	1.000	NO	MM
6	6	170822M1_7	Standard	50.000	5.41	21405.127	63247.887	50.765	50.8	1.5	NO	1.000	NO	bb
7	7	170822M1_8	Standard	250.000	5.41	103588.633	61173.820	254.002	256.1	2.4	NO	1.000	NO	MM
8	8	170822M1_9	Standard	500.000	5.41	233138.828	69782.867	501.138	505.8	1.2	NO	1.000	NO	MM
9	9	170822M1_10	Standard	1250.000	5.42	564304.000	69168.078	1223.767	1235.9	-1.1	NO	1.000	NO	MM

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Compound name: N-EtFOSE
Correlation coefficient: r = 0.999604, r^2 = 0.999209
Calibration curve: 1.09342 * x + 0.642295
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	1.250	5.58	729.560	63032.430	1.736	1.0	-20.0	NO	0.999	NO	bb
2	2	170822M1_3	Standard	2.500	5.59	1333.177	62538.070	3.198	2.3	-6.5	NO	0.999	NO	bb
3	3	170822M1_4	Standard	5.000	5.59	3142.563	70127.984	6.722	5.6	11.2	NO	0.999	NO	bb
4	4	170822M1_5	Standard	10.000	5.59	6910.348	86334.133	12.006	10.4	3.9	NO	0.999	NO	bb
5	5	170822M1_6	Standard	25.000	5.59	11836.784	61413.438	28.911	25.9	3.4	NO	0.999	NO	bb
6	6	170822M1_7	Standard	50.000	5.59	24616.322	64571.906	57.184	51.7	3.4	NO	0.999	NO	bb
7	7	170822M1_8	Standard	250.000	5.59	115974.688	61223.801	284.141	259.3	3.7	NO	0.999	NO	bb
8	8	170822M1_9	Standard	500.000	5.59	267541.906	71190.094	563.720	515.0	3.0	NO	0.999	NO	bb
9	9	170822M1_10	Standard	1250.000	5.59	622885.125	69856.148	1337.502	1222.6	-2.2	NO	0.999	NO	bb

Compound name: 13C3-PFBA
Response Factor: 0.915126
RRF SD: 0.0210749, Relative SD: 2.30295
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	1.29	13067.521	14147.505	11.546	12.6	0.9	NO		NO	bb
2	2	170822M1_3	Standard	12.500	1.28	13256.519	14638.748	11.320	12.4	-1.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	1.28	14789.779	15262.076	12.113	13.2	5.9	NO		NO	bb
4	4	170822M1_5	Standard	12.500	1.30	18004.955	19866.389	11.329	12.4	-1.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	1.29	13299.712	14641.991	11.354	12.4	-0.7	NO		NO	bb
6	6	170822M1_7	Standard	12.500	1.29	13964.735	15432.067	11.311	12.4	-1.1	NO		NO	bb
7	7	170822M1_8	Standard	12.500	1.31	14286.257	15730.294	11.353	12.4	-0.8	NO		NO	bb
8	8	170822M1_9	Standard	12.500	1.30	14706.023	16233.157	11.324	12.4	-1.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	1.29	13908.182	15382.219	11.302	12.4	-1.2	NO		NO	bb

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Compound name: 13C3-PFPeA
Response Factor: 0.256342
RRF SD: 0.00576324, Relative SD: 2.24827
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	2.57	24274.268	37733.152	3.217	12.5	0.4	NO		NO	bb
2	2	170822M1_3	Standard	12.500	2.57	24179.082	38522.879	3.138	12.2	-2.1	NO		NO	bb
3	3	170822M1_4	Standard	12.500	2.58	26701.146	39713.645	3.362	13.1	4.9	NO		NO	bb
4	4	170822M1_5	Standard	12.500	2.58	33247.730	53444.910	3.110	12.1	-2.9	NO		NO	bb
5	5	170822M1_6	Standard	12.500	2.58	24976.352	38870.789	3.213	12.5	0.3	NO		NO	bb
6	6	170822M1_7	Standard	12.500	2.58	26505.270	41331.125	3.206	12.5	0.1	NO		NO	bb
7	7	170822M1_8	Standard	12.500	2.59	26888.873	41552.020	3.236	12.6	1.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	2.58	27880.152	43549.840	3.201	12.5	-0.1	NO		NO	bb
9	9	170822M1_10	Standard	12.500	2.58	26849.350	42541.023	3.156	12.3	-1.5	NO		NO	bb

Compound name: 13C3-PFBS
Response Factor: 0.0315507
RRF SD: 0.00117564, Relative SD: 3.7262
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	2.82	3000.536	37733.152	0.398	12.6	0.8	NO		NO	bb
2	2	170822M1_3	Standard	12.500	2.83	3033.199	38522.879	0.394	12.5	-0.2	NO		NO	bb
3	3	170822M1_4	Standard	12.500	2.83	3379.104	39713.645	0.425	13.5	7.9	NO		NO	bb
4	4	170822M1_5	Standard	12.500	2.83	4248.800	53444.910	0.397	12.6	0.8	NO		NO	bb
5	5	170822M1_6	Standard	12.500	2.83	3062.776	38870.789	0.394	12.5	-0.1	NO		NO	bb
6	6	170822M1_7	Standard	12.500	2.83	3206.250	41331.125	0.388	12.3	-1.7	NO		NO	bb
7	7	170822M1_8	Standard	12.500	2.84	3288.393	41552.020	0.396	12.5	0.3	NO		NO	bb
8	8	170822M1_9	Standard	12.500	2.83	3390.379	43549.840	0.389	12.3	-1.3	NO		NO	bb
9	9	170822M1_10	Standard	12.500	2.83	3134.862	42541.023	0.368	11.7	-6.6	NO		NO	bb

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Compound name: 13C2-PFHxA
Response Factor: 0.303646
RRF SD: 0.00844641, Relative SD: 2.78166
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	5.000	3.09	11270.520	37733.152	1.493	4.9	-1.6	NO		NO	bb
2	2	170822M1_3	Standard	5.000	3.08	11279.962	38522.879	1.464	4.8	-3.6	NO		NO	bb
3	3	170822M1_4	Standard	5.000	3.08	12558.775	39713.645	1.581	5.2	4.1	NO		NO	bb
4	4	170822M1_5	Standard	5.000	3.09	16346.858	53444.910	1.529	5.0	0.7	NO		NO	bb
5	5	170822M1_6	Standard	5.000	3.09	11863.096	38870.789	1.526	5.0	0.5	NO		NO	bb
6	6	170822M1_7	Standard	5.000	3.09	12075.572	41331.125	1.461	4.8	-3.8	NO		NO	bb
7	7	170822M1_8	Standard	5.000	3.09	12792.715	41552.020	1.539	5.1	1.4	NO		NO	bb
8	8	170822M1_9	Standard	5.000	3.09	13075.690	43549.840	1.501	4.9	-1.1	NO		NO	bb
9	9	170822M1_10	Standard	5.000	3.09	13346.744	42541.023	1.569	5.2	3.3	NO		NO	bb

Compound name: 13C4-PFHpA
Response Factor: 0.341409
RRF SD: 0.0126217, Relative SD: 3.69695
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.36	32438.938	37733.152	4.298	12.6	0.7	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.36	32281.281	38522.879	4.190	12.3	-1.8	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.36	35665.227	39713.645	4.490	13.2	5.2	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.36	46179.301	53444.910	4.320	12.7	1.2	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.36	31500.809	38870.789	4.052	11.9	-5.1	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.36	34796.133	41331.125	4.209	12.3	-1.4	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.36	37591.008	41552.020	4.523	13.2	6.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.36	36552.297	43549.840	4.197	12.3	-1.7	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.36	35123.180	42541.023	4.128	12.1	-3.3	NO		NO	bb

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Compound name: 18O2-PFHxS
Response Factor: 0.445236
RRF SD: 0.0342289, Relative SD: 7.68781
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.43	3044.238	6982.385	5.450	12.2	-2.1	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.43	2956.595	6719.394	5.500	12.4	-1.2	NO		NO	MM
3	3	170822M1_4	Standard	12.500	3.43	3403.024	6675.727	6.372	14.3	14.5	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.44	4112.344	9218.376	5.576	12.5	0.2	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.43	3118.308	6759.597	5.766	13.0	3.6	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.44	2887.481	7338.704	4.918	11.0	-11.6	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.44	3300.477	7350.972	5.612	12.6	0.8	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.44	3256.946	6973.024	5.838	13.1	4.9	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.44	2821.826	6977.347	5.055	11.4	-9.2	NO		NO	bb

Compound name: 13C2-6:2 FTS
Response Factor: 0.19386
RRF SD: 0.0158639, Relative SD: 8.1832
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.55	9225.774	53357.996	2.161	11.1	-10.8	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.55	9796.299	54846.516	2.233	11.5	-7.9	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.55	10053.516	51691.297	2.431	12.5	0.3	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.56	14220.885	70979.328	2.504	12.9	3.3	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.56	10973.442	56976.805	2.407	12.4	-0.7	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.56	10976.921	55877.137	2.456	12.7	1.3	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.56	12155.943	64094.781	2.371	12.2	-2.2	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.56	12828.711	56809.324	2.823	14.6	16.5	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.56	15032.745	53254.949	3.528	18.2	45.6	NO		NO	bbX

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Compound name: 13C2-PFOA
Response Factor: 1.08145
RRF SD: 0.0288148, Relative SD: 2.66447
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.56	57023.043	53357.996	13.359	12.4	-1.2	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.56	58105.078	54846.516	13.243	12.2	-2.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.56	58268.199	51691.297	14.090	13.0	4.2	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.57	75996.234	70979.328	13.384	12.4	-1.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.57	62872.992	56976.805	13.794	12.8	2.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.57	59643.070	55877.137	13.342	12.3	-1.3	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.57	66261.203	64094.781	12.923	11.9	-4.4	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.57	62842.355	56809.324	13.827	12.8	2.3	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.57	58374.754	53254.949	13.702	12.7	1.4	NO		NO	bb

Compound name: 13C5-PFNA
Response Factor: 0.9082
RRF SD: 0.0408872, Relative SD: 4.50201
Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.74	67759.922	75438.133	11.228	12.4	-1.1	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.74	63188.738	71942.250	10.979	12.1	-3.3	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.74	81463.539	82975.578	12.272	13.5	8.1	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.75	94992.117	103054.859	11.522	12.7	1.5	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.75	65684.609	69694.055	11.781	13.0	3.8	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.74	71275.195	77817.711	11.449	12.6	0.9	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.75	59996.332	71802.063	10.445	11.5	-8.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.75	71688.164	80406.680	11.145	12.3	-1.8	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.75	63811.574	70263.578	11.352	12.5	-0.0	NO		NO	bb

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Compound name: 13C8-PFOSA
Response Factor: 0.129799
RRF SD: 0.00782074, Relative SD: 6.02526
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.75	9702.039	77058.117	1.574	12.1	-3.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.75	9544.876	78248.578	1.525	11.7	-6.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.75	10927.972	75033.336	1.821	14.0	12.2	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.75	12923.007	96045.875	1.682	13.0	3.7	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.75	9572.224	76984.477	1.554	12.0	-4.2	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.75	9759.555	76765.914	1.589	12.2	-2.1	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.75	8644.814	63381.000	1.705	13.1	5.1	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.76	9258.590	71151.273	1.627	12.5	0.3	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.76	8083.871	66196.008	1.527	11.8	-5.9	NO		NO	bb

Compound name: 13C8-PFOS
Response Factor: 1.07606
RRF SD: 0.0405929, Relative SD: 3.77236
Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.79	11719.411	10779.730	13.590	12.6	1.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.80	11773.024	10671.885	13.790	12.8	2.5	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.79	14197.065	12425.546	14.282	13.3	6.2	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.80	15967.976	15012.536	13.296	12.4	-1.2	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.80	11977.875	11265.064	13.291	12.4	-1.2	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.80	12154.132	11943.677	12.720	11.8	-5.4	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.80	11262.315	10179.077	13.830	12.9	2.8	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.80	11565.001	11345.588	12.742	11.8	-5.3	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.80	10927.293	10105.277	13.517	12.6	0.5	NO		NO	bb

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Compound name: 13C2-PFDA
Response Factor: 1.00203
RRF SD: 0.0777048, Relative SD: 7.75475
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.91	65492.855	73288.820	11.170	11.1	-10.8	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.91	72981.016	68572.164	13.304	13.3	6.2	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.91	84367.859	75991.625	13.878	13.8	10.8	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.91	82753.391	92198.617	11.219	11.2	-10.4	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.92	70537.492	64665.813	13.635	13.6	8.9	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.91	67757.469	66176.906	12.799	12.8	2.2	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.92	65062.473	66902.789	12.156	12.1	-2.9	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.91	73129.266	74888.508	12.206	12.2	-2.5	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.92	72896.570	73717.414	12.361	12.3	-1.3	NO		NO	bb

Compound name: 13C2-8:2 FTS
Response Factor: 0.110286
RRF SD: 0.00535014, Relative SD: 4.85116
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.90	7516.377	73288.820	1.282	11.6	-7.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.91	7155.346	68572.164	1.304	11.8	-5.4	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.90	8394.511	75991.625	1.381	12.5	0.2	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.91	10288.313	92198.617	1.395	12.6	1.2	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.91	7778.414	64665.813	1.504	13.6	9.1	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.91	7320.282	66176.906	1.383	12.5	0.3	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.91	7376.407	66902.789	1.378	12.5	-0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.91	8400.071	74888.508	1.402	12.7	1.7	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.92	11634.532	73717.414	1.973	17.9	43.1	NO		NO	bbX

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Compound name: d3-N-MeFOSAA
Response Factor: 0.0157234
RRF SD: 0.00133152, Relative SD: 8.46835
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	162.500	3.94	13890.228	77058.117	2.253	143.3	-11.8	NO		NO	bb
2	2	170822M1_3	Standard	162.500	3.94	14996.310	78248.578	2.396	152.4	-6.2	NO		NO	bb
3	3	170822M1_4	Standard	162.500	3.94	17579.518	75033.336	2.929	186.3	14.6	NO		NO	bb
4	4	170822M1_5	Standard	162.500	3.95	20041.094	96045.875	2.608	165.9	2.1	NO		NO	bb
5	5	170822M1_6	Standard	162.500	3.94	14381.390	76984.477	2.335	148.5	-8.6	NO		NO	bb
6	6	170822M1_7	Standard	162.500	3.94	15261.376	76765.914	2.485	158.0	-2.7	NO		NO	bb
7	7	170822M1_8	Standard	162.500	3.95	14183.573	63381.000	2.797	177.9	9.5	NO		NO	bb
8	8	170822M1_9	Standard	162.500	3.95	14709.819	71151.273	2.584	164.4	1.1	NO		NO	bb
9	9	170822M1_10	Standard	162.500	3.95	13811.823	66196.008	2.608	165.9	2.1	NO		NO	bb

Compound name: d5-N-EtFOSAA
Response Factor: 0.0154914
RRF SD: 0.00155586, Relative SD: 10.0433
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	162.500	4.01	13077.519	77058.117	2.121	136.9	-15.7	NO		NO	bb
2	2	170822M1_3	Standard	162.500	4.01	14505.178	78248.578	2.317	149.6	-8.0	NO		NO	bb
3	3	170822M1_4	Standard	162.500	4.01	16585.809	75033.336	2.763	178.4	9.8	NO		NO	bb
4	4	170822M1_5	Standard	162.500	4.02	18969.387	96045.875	2.469	159.4	-1.9	NO		NO	bb
5	5	170822M1_6	Standard	162.500	4.02	13884.409	76984.477	2.254	145.5	-10.4	NO		NO	bb
6	6	170822M1_7	Standard	162.500	4.02	15205.719	76765.914	2.476	159.8	-1.6	NO		NO	bb
7	7	170822M1_8	Standard	162.500	4.02	14475.974	63381.000	2.855	184.3	13.4	NO		NO	bb
8	8	170822M1_9	Standard	162.500	4.02	15398.876	71151.273	2.705	174.6	7.5	NO		NO	bb
9	9	170822M1_10	Standard	162.500	4.02	14272.648	66196.008	2.695	174.0	7.1	NO		NO	bb

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Compound name: 13C2-PFUnA
Response Factor: 1.04506
RRF SD: 0.0591912, Relative SD: 5.66389
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	4.08	78792.375	77058.117	12.781	12.2	-2.2	NO		NO	bb
2	2	170822M1_3	Standard	12.500	4.08	78660.547	78248.578	12.566	12.0	-3.8	NO		NO	bb
3	3	170822M1_4	Standard	12.500	4.08	82463.398	75033.336	13.738	13.1	5.2	NO		NO	bb
4	4	170822M1_5	Standard	12.500	4.08	99679.305	96045.875	12.973	12.4	-0.7	NO		NO	bb
5	5	170822M1_6	Standard	12.500	4.08	76737.672	76984.477	12.460	11.9	-4.6	NO		NO	bb
6	6	170822M1_7	Standard	12.500	4.08	75797.781	76765.914	12.342	11.8	-5.5	NO		NO	bb
7	7	170822M1_8	Standard	12.500	4.08	64419.211	63381.000	12.705	12.2	-2.7	NO		NO	bb
8	8	170822M1_9	Standard	12.500	4.09	76072.414	71151.273	13.365	12.8	2.3	NO		NO	bb
9	9	170822M1_10	Standard	12.500	4.09	77529.203	66196.008	14.640	14.0	12.1	NO		NO	bb

Compound name: 13C2-PFDoA
Response Factor: 0.100589
RRF SD: 0.00944993, Relative SD: 9.39459
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	4.24	7204.947	77058.117	1.169	11.6	-7.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	4.24	6895.161	78248.578	1.101	11.0	-12.4	NO		NO	bb
3	3	170822M1_4	Standard	12.500	4.24	8261.931	75033.336	1.376	13.7	9.5	NO		NO	bb
4	4	170822M1_5	Standard	12.500	4.24	9225.597	96045.875	1.201	11.9	-4.5	NO		NO	bb
5	5	170822M1_6	Standard	12.500	4.24	7364.974	76984.477	1.196	11.9	-4.9	NO		NO	bb
6	6	170822M1_7	Standard	12.500	4.24	7067.033	76765.914	1.151	11.4	-8.5	NO		NO	bb
7	7	170822M1_8	Standard	12.500	4.24	6645.604	63381.000	1.311	13.0	4.2	NO		NO	bb
8	8	170822M1_9	Standard	12.500	4.24	7999.761	71151.273	1.405	14.0	11.8	NO		NO	bb
9	9	170822M1_10	Standard	12.500	4.25	7447.441	66196.008	1.406	14.0	11.8	NO		NO	bb

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Compound name: d3-N-MeFOSA
Response Factor: 0.047682
RRF SD: 0.00484625, Relative SD: 10.1637
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	150.000	4.22	40569.238	77058.117	6.581	138.0	-8.0	NO		NO	bd
2	2	170822M1_3	Standard	150.000	4.22	39756.762	78248.578	6.351	133.2	-11.2	NO		NO	bb
3	3	170822M1_4	Standard	150.000	4.22	43985.508	75033.336	7.328	153.7	2.5	NO		NO	bb
4	4	170822M1_5	Standard	150.000	4.22	54514.090	96045.875	7.095	148.8	-0.8	NO		NO	bb
5	5	170822M1_6	Standard	150.000	4.22	39168.520	76984.477	6.360	133.4	-11.1	NO		NO	bb
6	6	170822M1_7	Standard	150.000	4.22	40985.344	76765.914	6.674	140.0	-6.7	NO		NO	bb
7	7	170822M1_8	Standard	150.000	4.22	39447.754	63381.000	7.780	163.2	8.8	NO		NO	bb
8	8	170822M1_9	Standard	150.000	4.23	44442.816	71151.273	7.808	163.7	9.2	NO		NO	bb
9	9	170822M1_10	Standard	150.000	4.23	44457.422	66196.008	8.395	176.1	17.4	NO		NO	bb

Compound name: 13C2-PFTeDA
Response Factor: 0.582627
RRF SD: 0.0645403, Relative SD: 11.0775
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	4.58	41495.012	77058.117	6.731	11.6	-7.6	NO		NO	bb
2	2	170822M1_3	Standard	12.500	4.58	41356.441	78248.578	6.607	11.3	-9.3	NO		NO	bb
3	3	170822M1_4	Standard	12.500	4.58	46791.598	75033.336	7.795	13.4	7.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	4.58	53655.762	96045.875	6.983	12.0	-4.1	NO		NO	bb
5	5	170822M1_6	Standard	12.500	4.59	41225.996	76984.477	6.694	11.5	-8.1	NO		NO	bb
6	6	170822M1_7	Standard	12.500	4.59	38543.859	76765.914	6.276	10.8	-13.8	NO		NO	bb
7	7	170822M1_8	Standard	12.500	4.59	39412.754	63381.000	7.773	13.3	6.7	NO		NO	bb
8	8	170822M1_9	Standard	12.500	4.59	45504.953	71151.273	7.994	13.7	9.8	NO		NO	bb
9	9	170822M1_10	Standard	12.500	4.59	46030.629	66196.008	8.692	14.9	19.4	NO		NO	bb

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Compound name: d5-N-ETFOSA
Response Factor: 0.0672671
RRF SD: 0.00772891, Relative SD: 11.4899
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	150.000	4.81	56494.754	77058.117	9.164	136.2	-9.2	NO		NO	bb
2	2	170822M1_3	Standard	150.000	4.82	55959.801	78248.578	8.939	132.9	-11.4	NO		NO	bb
3	3	170822M1_4	Standard	150.000	4.81	60781.070	75033.336	10.126	150.5	0.4	NO		NO	bb
4	4	170822M1_5	Standard	150.000	4.81	76407.625	96045.875	9.944	147.8	-1.4	NO		NO	bb
5	5	170822M1_6	Standard	150.000	4.82	55124.234	76984.477	8.951	133.1	-11.3	NO		NO	bb
6	6	170822M1_7	Standard	150.000	4.81	56971.250	76765.914	9.277	137.9	-8.1	NO		NO	bb
7	7	170822M1_8	Standard	150.000	4.82	55871.590	63381.000	11.019	163.8	9.2	NO		NO	bb
8	8	170822M1_9	Standard	150.000	4.82	63527.047	71151.273	11.161	165.9	10.6	NO		NO	bb
9	9	170822M1_10	Standard	150.000	4.82	64767.172	66196.008	12.230	181.8	21.2	NO		NO	bb

Compound name: 13C2-PFHxDA
Response Factor: 0.773917
RRF SD: 0.0878195, Relative SD: 11.3474
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	5.000	4.95	22137.955	77058.117	3.591	4.6	-7.2	NO		NO	bb
2	2	170822M1_3	Standard	5.000	4.95	21215.932	78248.578	3.389	4.4	-12.4	NO		NO	bb
3	3	170822M1_4	Standard	5.000	4.95	25562.146	75033.336	4.258	5.5	10.0	NO		NO	bb
4	4	170822M1_5	Standard	5.000	4.95	28134.393	96045.875	3.662	4.7	-5.4	NO		NO	bb
5	5	170822M1_6	Standard	5.000	4.95	21238.021	76984.477	3.448	4.5	-10.9	NO		NO	bb
6	6	170822M1_7	Standard	5.000	4.95	21372.596	76765.914	3.480	4.5	-10.1	NO		NO	bb
7	7	170822M1_8	Standard	5.000	4.96	21245.047	63381.000	4.190	5.4	8.3	NO		NO	bb
8	8	170822M1_9	Standard	5.000	4.96	24287.518	71151.273	4.267	5.5	10.3	NO		NO	bb
9	9	170822M1_10	Standard	5.000	4.96	24045.041	66196.008	4.541	5.9	17.3	NO		NO	bb

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Compound name: d7-N-MeFOSE
Response Factor: 0.0738828
RRF SD: 0.00774049, Relative SD: 10.4767
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	150.000	5.39	62425.852	77058.117	10.126	137.1	-8.6	NO		NO	bb
2	2	170822M1_3	Standard	150.000	5.40	62192.980	78248.578	9.935	134.5	-10.4	NO		NO	bb
3	3	170822M1_4	Standard	150.000	5.40	68193.609	75033.336	11.361	153.8	2.5	NO		NO	bb
4	4	170822M1_5	Standard	150.000	5.39	82829.117	96045.875	10.780	145.9	-2.7	NO		NO	bb
5	5	170822M1_6	Standard	150.000	5.40	60697.469	76984.477	9.855	133.4	-11.1	NO		NO	bb
6	6	170822M1_7	Standard	150.000	5.39	63247.887	76765.914	10.299	139.4	-7.1	NO		NO	bb
7	7	170822M1_8	Standard	150.000	5.40	61173.820	63381.000	12.065	163.3	8.9	NO		NO	bb
8	8	170822M1_9	Standard	150.000	5.40	69782.867	71151.273	12.260	165.9	10.6	NO		NO	bb
9	9	170822M1_10	Standard	150.000	5.40	69168.078	66196.008	13.061	176.8	17.9	NO		NO	bb

Compound name: d9-N-EtFOSE
Response Factor: 0.0751057
RRF SD: 0.00782651, Relative SD: 10.4207
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	150.000	5.57	63032.430	77058.117	10.225	136.1	-9.2	NO		NO	bb
2	2	170822M1_3	Standard	150.000	5.57	62538.070	78248.578	9.990	133.0	-11.3	NO		NO	bb
3	3	170822M1_4	Standard	150.000	5.57	70127.984	75033.336	11.683	155.6	3.7	NO		NO	bb
4	4	170822M1_5	Standard	150.000	5.57	86334.133	96045.875	11.236	149.6	-0.3	NO		NO	bb
5	5	170822M1_6	Standard	150.000	5.57	61413.438	76984.477	9.972	132.8	-11.5	NO		NO	bb
6	6	170822M1_7	Standard	150.000	5.57	64571.906	76765.914	10.514	140.0	-6.7	NO		NO	bb
7	7	170822M1_8	Standard	150.000	5.57	61223.801	63381.000	12.075	160.8	7.2	NO		NO	bb
8	8	170822M1_9	Standard	150.000	5.57	71190.094	71151.273	12.507	166.5	11.0	NO		NO	bb
9	9	170822M1_10	Standard	150.000	5.58	69856.148	66196.008	13.191	175.6	17.1	NO		NO	bb

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Compound name: 13C4-PFBA
Response Factor: 1
RRF SD: 1.75542e-016, Relative SD: 1.75542e-014
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	1.29	14147.505	14147.505	12.500	12.5	0.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	1.29	14638.748	14638.748	12.500	12.5	0.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	1.29	15262.076	15262.076	12.500	12.5	0.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	1.29	19866.389	19866.389	12.500	12.5	0.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	1.29	14641.991	14641.991	12.500	12.5	0.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	1.29	15432.067	15432.067	12.500	12.5	0.0	NO		NO	bb
7	7	170822M1_8	Standard	12.500	1.31	15730.294	15730.294	12.500	12.5	0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	1.30	16233.157	16233.157	12.500	12.5	0.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	1.29	15382.219	15382.219	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	5.000	3.08	37733.152	37733.152	5.000	5.0	0.0	NO		NO	bb
2	2	170822M1_3	Standard	5.000	3.08	38522.879	38522.879	5.000	5.0	0.0	NO		NO	bb
3	3	170822M1_4	Standard	5.000	3.09	39713.645	39713.645	5.000	5.0	0.0	NO		NO	bb
4	4	170822M1_5	Standard	5.000	3.09	53444.910	53444.910	5.000	5.0	0.0	NO		NO	bb
5	5	170822M1_6	Standard	5.000	3.09	38870.789	38870.789	5.000	5.0	0.0	NO		NO	bb
6	6	170822M1_7	Standard	5.000	3.09	41331.125	41331.125	5.000	5.0	0.0	NO		NO	bb
7	7	170822M1_8	Standard	5.000	3.09	41552.020	41552.020	5.000	5.0	0.0	NO		NO	bb
8	8	170822M1_9	Standard	5.000	3.09	43549.840	43549.840	5.000	5.0	0.0	NO		NO	bb
9	9	170822M1_10	Standard	5.000	3.09	42541.023	42541.023	5.000	5.0	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.43	6982.385	6982.385	12.500	12.5	0.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.43	6719.394	6719.394	12.500	12.5	0.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.43	6675.727	6675.727	12.500	12.5	0.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.44	9218.376	9218.376	12.500	12.5	0.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.44	6759.597	6759.597	12.500	12.5	0.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.44	7338.704	7338.704	12.500	12.5	0.0	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.44	7350.972	7350.972	12.500	12.5	0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.44	6973.024	6973.024	12.500	12.5	0.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.44	6977.347	6977.347	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA
Response Factor: 1
RRF SD: 3.92523e-017, Relative SD: 3.92523e-015
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.56	53357.996	53357.996	12.500	12.5	0.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.56	54846.516	54846.516	12.500	12.5	0.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.56	51691.297	51691.297	12.500	12.5	0.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.57	70979.328	70979.328	12.500	12.5	0.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.56	56976.805	56976.805	12.500	12.5	0.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.57	55877.137	55877.137	12.500	12.5	0.0	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.57	64094.781	64094.781	12.500	12.5	0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.57	56809.324	56809.324	12.500	12.5	0.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.57	53254.949	53254.949	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.74	75438.133	75438.133	12.500	12.5	0.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.74	71942.250	71942.250	12.500	12.5	0.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.74	82975.578	82975.578	12.500	12.5	0.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.75	103054.859	103054.859	12.500	12.5	0.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.74	69694.055	69694.055	12.500	12.5	0.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.75	77817.711	77817.711	12.500	12.5	0.0	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.75	71802.063	71802.063	12.500	12.5	0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.75	80406.680	80406.680	12.500	12.5	0.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.75	70263.578	70263.578	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.79	10779.730	10779.730	12.500	12.5	0.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.80	10671.885	10671.885	12.500	12.5	0.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.79	12425.546	12425.546	12.500	12.5	0.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.80	15012.536	15012.536	12.500	12.5	0.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.80	11265.064	11265.064	12.500	12.5	0.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.80	11943.677	11943.677	12.500	12.5	0.0	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.80	10179.077	10179.077	12.500	12.5	0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.80	11345.588	11345.588	12.500	12.5	0.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.80	10105.277	10105.277	12.500	12.5	0.0	NO		NO	bb

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:51:03 Pacific Daylight Time

Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 5.55112e-017, Relative SD: 5.55112e-015
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	3.91	73288.820	73288.820	12.500	12.5	0.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	3.91	68572.164	68572.164	12.500	12.5	0.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	3.91	75991.625	75991.625	12.500	12.5	0.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	3.91	92198.617	92198.617	12.500	12.5	0.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	3.92	64665.813	64665.813	12.500	12.5	0.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	3.91	66176.906	66176.906	12.500	12.5	0.0	NO		NO	bb
7	7	170822M1_8	Standard	12.500	3.92	66902.789	66902.789	12.500	12.5	0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	3.91	74888.508	74888.508	12.500	12.5	0.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	3.92	73717.414	73717.414	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUnA
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	170822M1_2	Standard	12.500	4.07	77058.117	77058.117	12.500	12.5	0.0	NO		NO	bb
2	2	170822M1_3	Standard	12.500	4.09	78248.578	78248.578	12.500	12.5	0.0	NO		NO	bb
3	3	170822M1_4	Standard	12.500	4.08	75033.336	75033.336	12.500	12.5	0.0	NO		NO	bb
4	4	170822M1_5	Standard	12.500	4.08	96045.875	96045.875	12.500	12.5	0.0	NO		NO	bb
5	5	170822M1_6	Standard	12.500	4.09	76984.477	76984.477	12.500	12.5	0.0	NO		NO	bb
6	6	170822M1_7	Standard	12.500	4.09	76765.914	76765.914	12.500	12.5	0.0	NO		NO	bb
7	7	170822M1_8	Standard	12.500	4.09	63381.000	63381.000	12.500	12.5	0.0	NO		NO	bb
8	8	170822M1_9	Standard	12.500	4.09	71151.273	71151.273	12.500	12.5	0.0	NO		NO	bb
9	9	170822M1_10	Standard	12.500	4.09	66196.008	66196.008	12.500	12.5	0.0	NO		NO	bb

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, August 22, 2017 13:55:44 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:55:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Compound name: PFBA

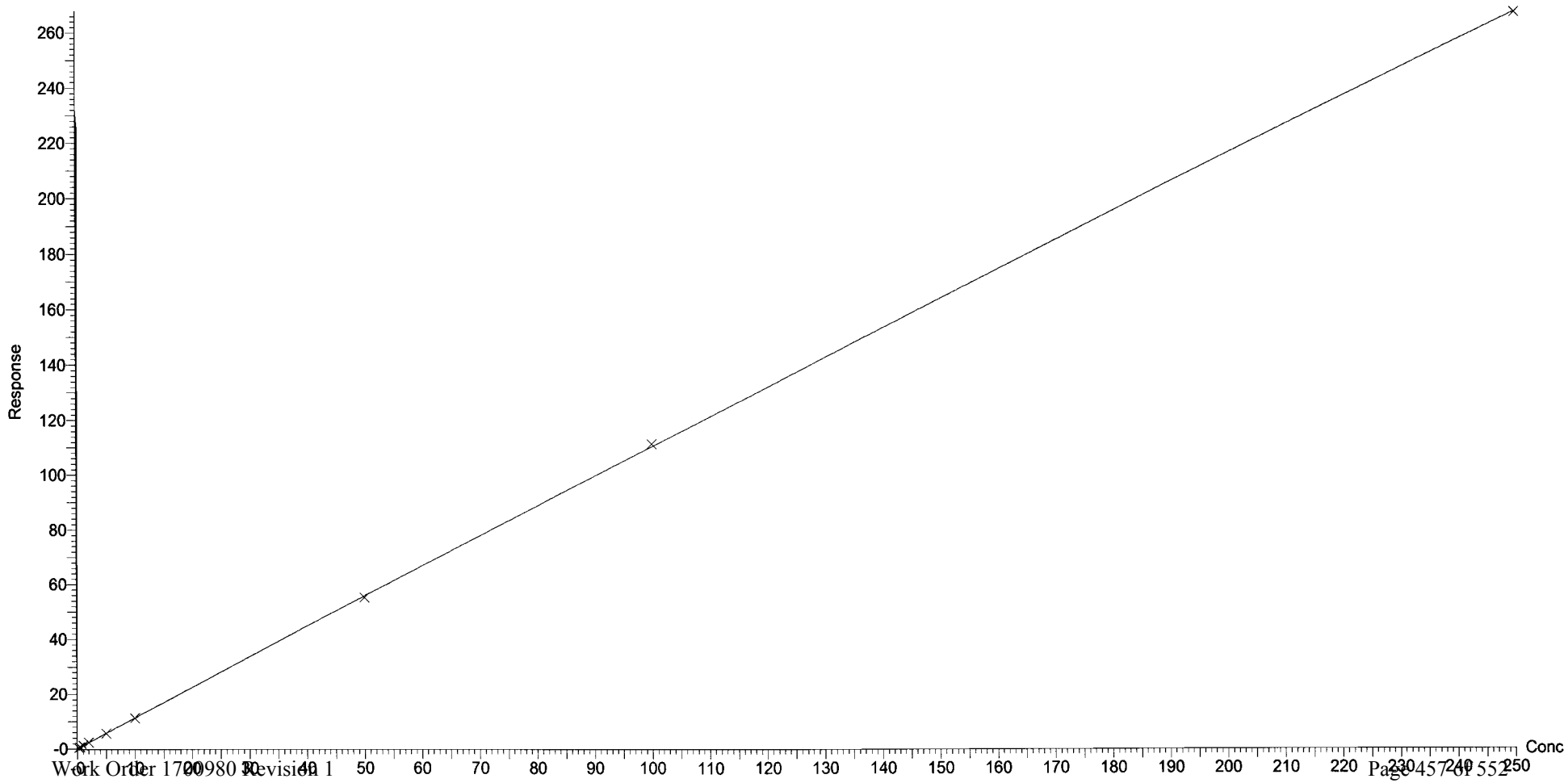
	Name	ID	Acq.Date	Acq.Time
1	170822M1_1	IPA	22-Aug-17	10:51:41
2	170822M1_2	ST170822M1-1 PFC CS-2 17H2202	22-Aug-17	11:02:26
3	170822M1_3	ST170822M1-2 PFC CS-1 17H2203	22-Aug-17	11:13:04
4	170822M1_4	ST170822M1-3 PFC CS0 17H2204	22-Aug-17	11:23:42
5	170822M1_5	ST170822M1-4 PFC CS1 17H2205	22-Aug-17	11:34:29
6	170822M1_6	ST170822M1-5 PFC CS2 17H2206	22-Aug-17	11:45:07
7	170822M1_7	ST170822M1-6 PFC CS3 17H2207	22-Aug-17	11:55:45
8	170822M1_8	ST170822M1-7 PFC CS4 17H2208	22-Aug-17	12:06:39
9	170822M1_9	ST170822M1-8 PFC CS5 17H2209	22-Aug-17	12:17:36
10	170822M1_10	ST170822M1-9 PFC CS6 17H2232	22-Aug-17	12:28:17
11	170822M1_11	ST170822M1-10 PFC CS7 17H2231	22-Aug-17	12:39:01
12	170822M1_12	IPA	22-Aug-17	12:49:48
13	170822M1_13	ICV170822M1-1 PFC ICV 17H2201	22-Aug-17	13:00:26

Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: 22 Aug 2017 13:46:03

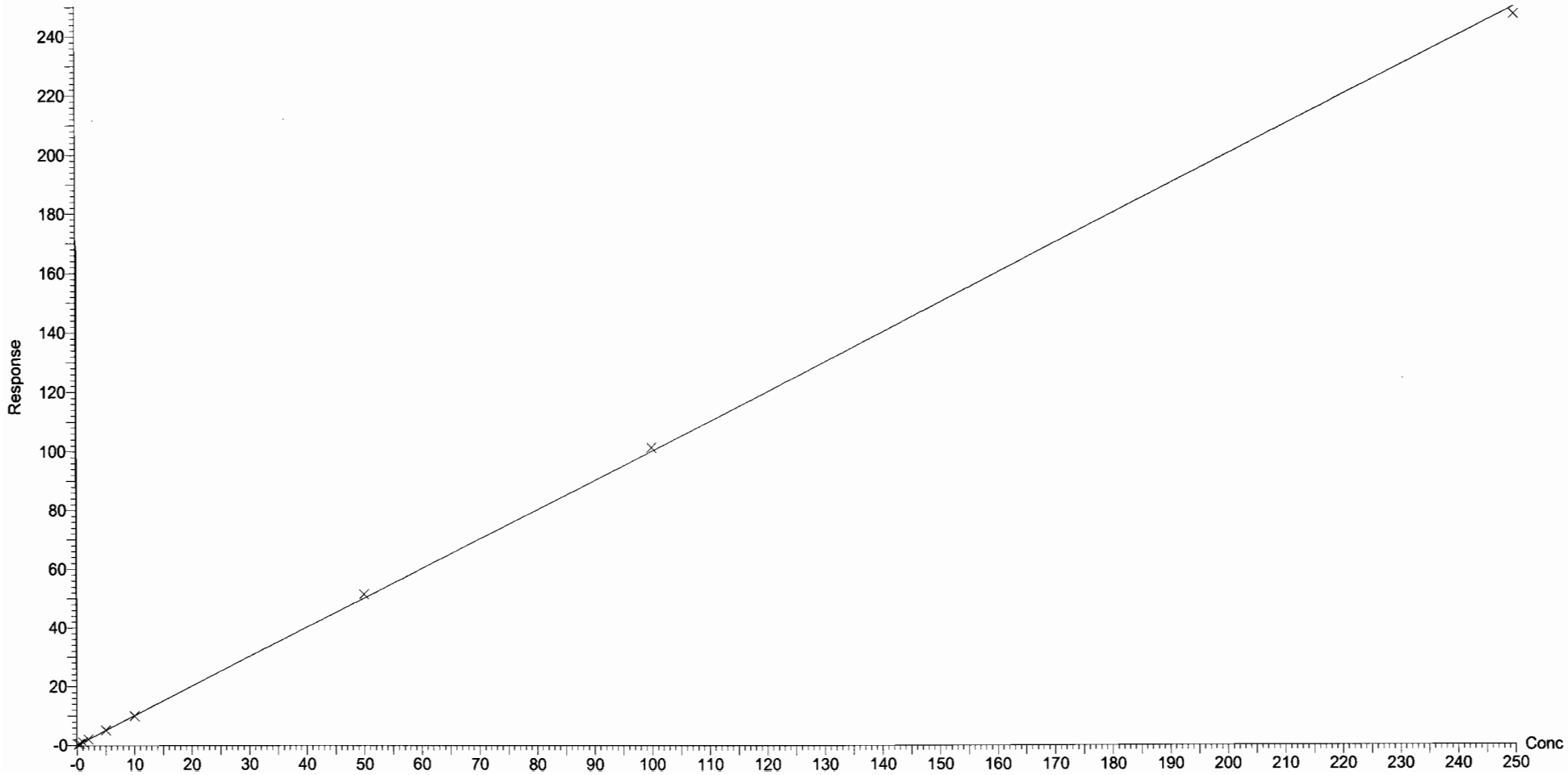
Compound name: PFBA
Coefficient of Determination: R^2 = 0.999923
Calibration curve: -0.000220672 * x^2 + 1.12638 * x + 0.0472253
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

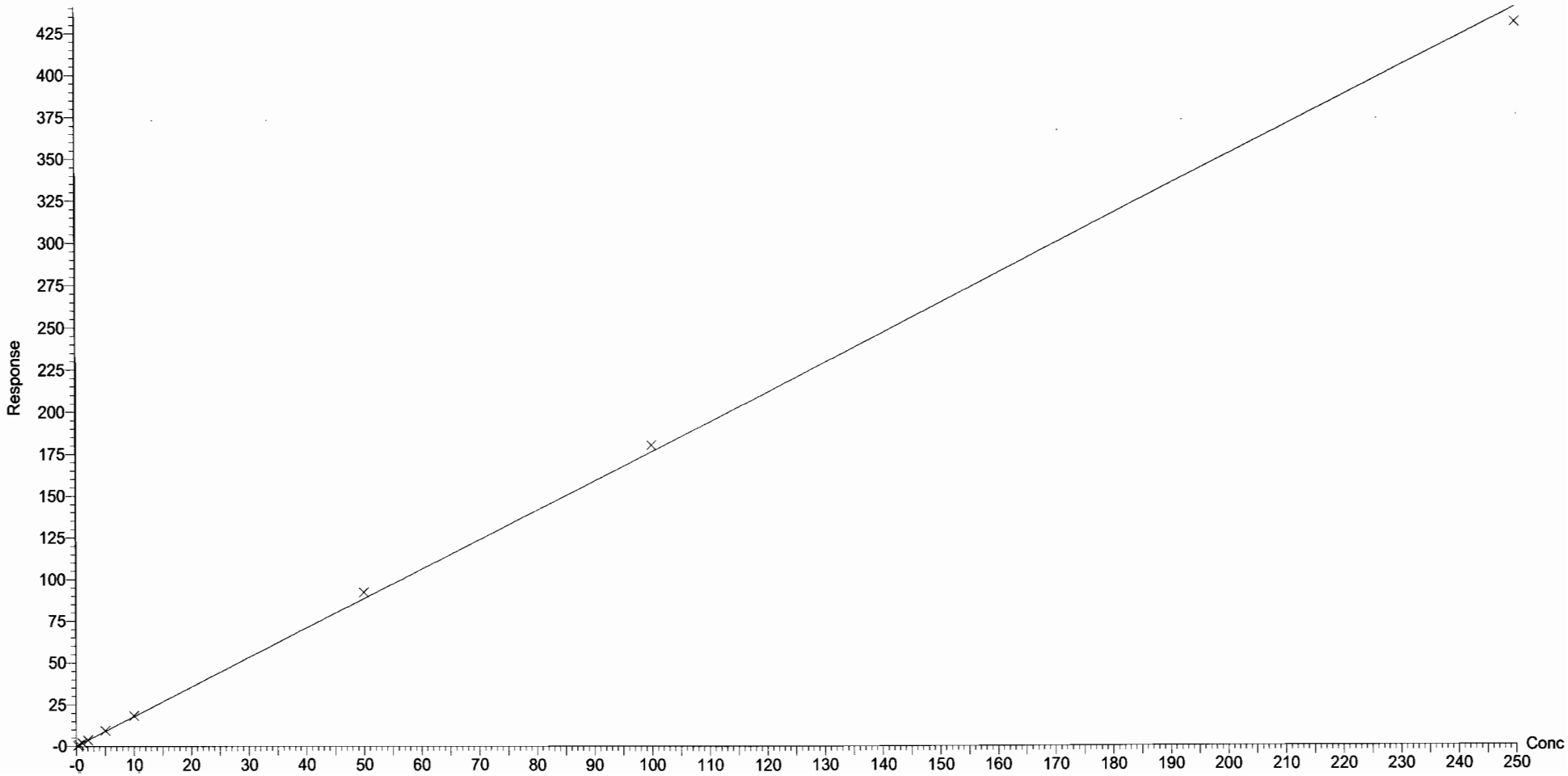
Compound name: PFPeA
Correlation coefficient: r = 0.999894, r^2 = 0.999789
Calibration curve: 1.00098 * x + 0.0709825
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

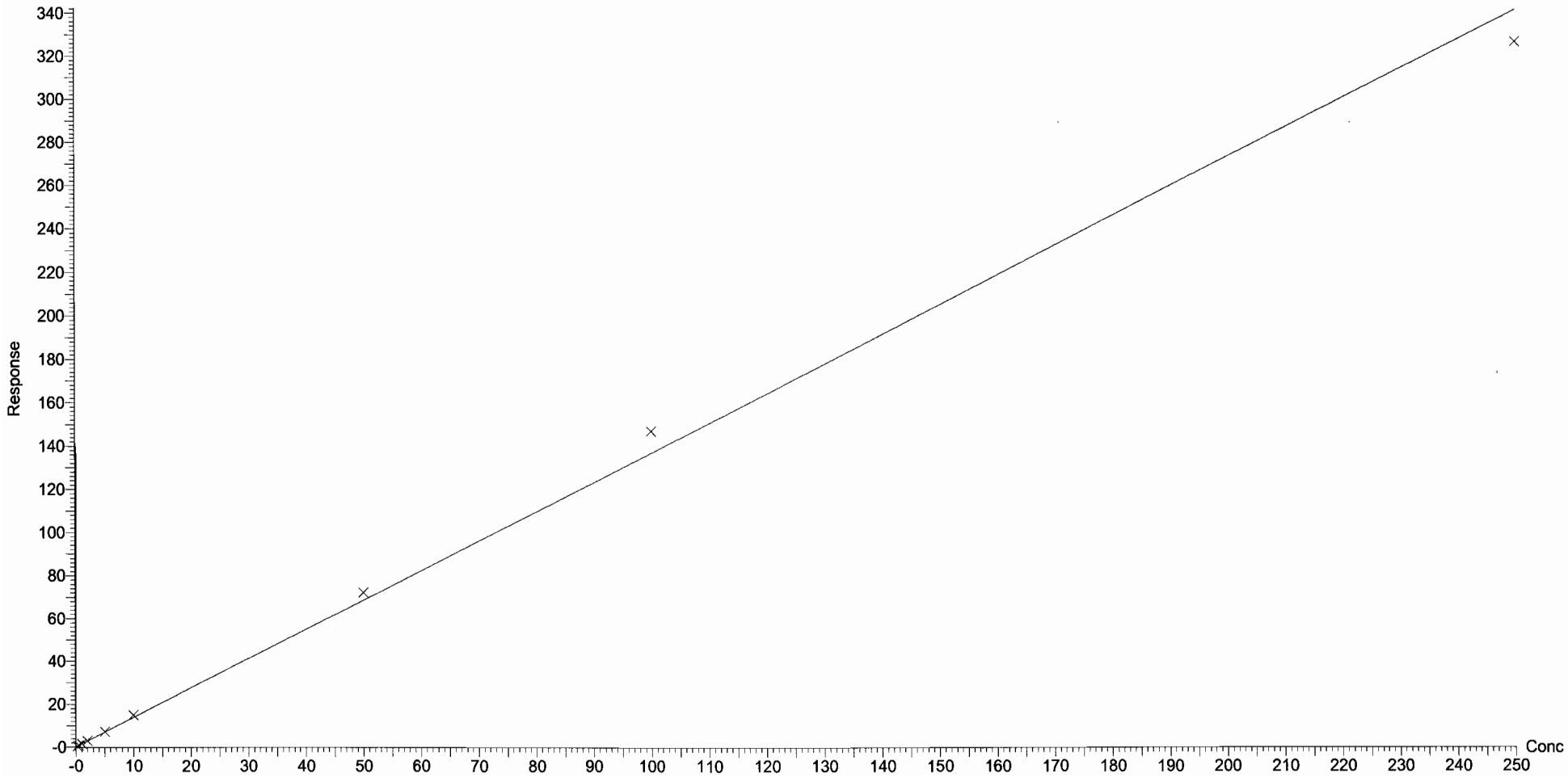
Compound name: PFBS
Correlation coefficient: r = 0.999650, r^2 = 0.999300
Calibration curve: 1.76272 * x + 0.100227
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

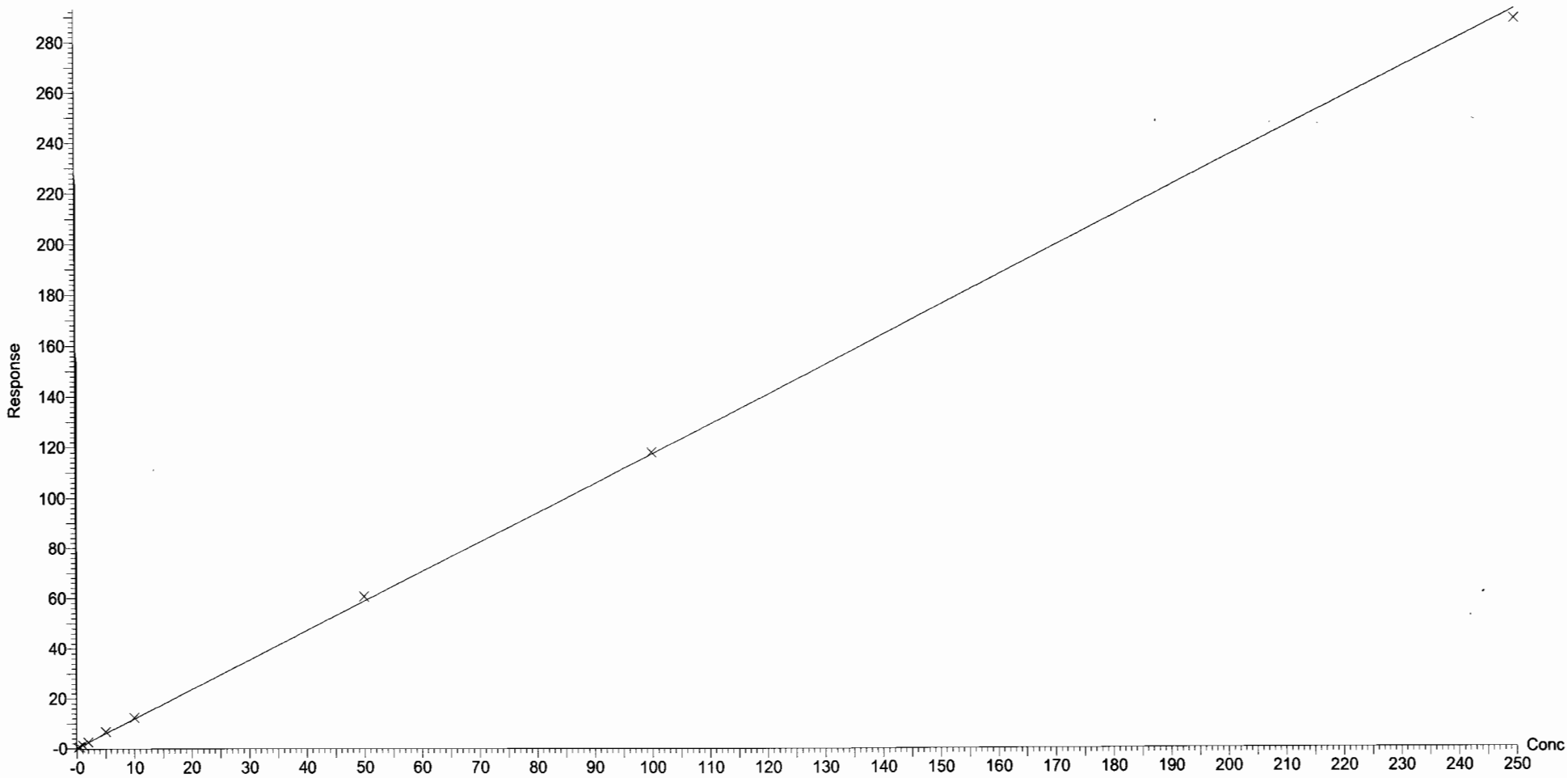
Compound name: PFHxA
Correlation coefficient: r = 0.998474, r^2 = 0.996950
Calibration curve: 1.36799 * x + 0.175836
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

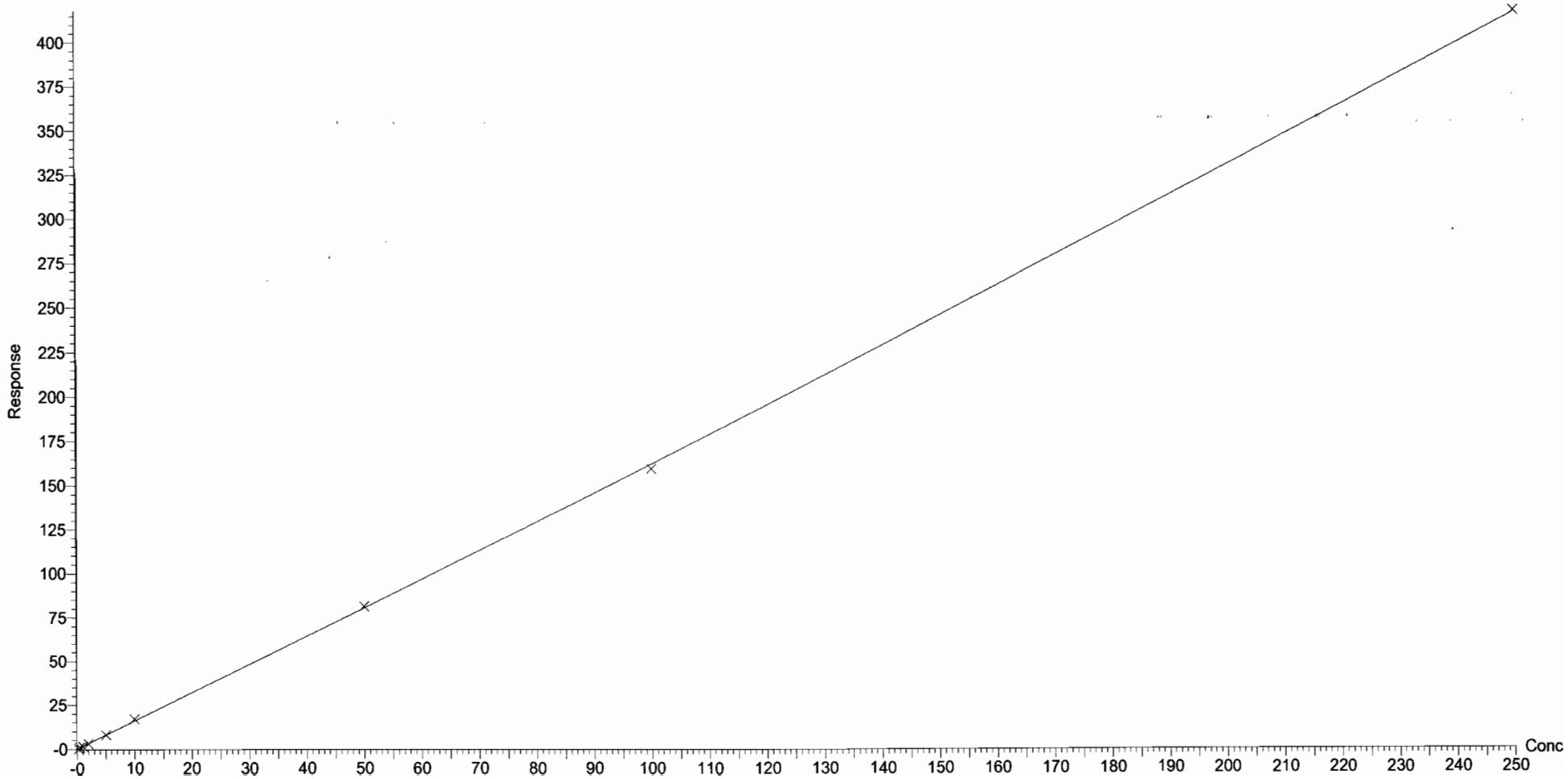
Compound name: PFHpA
Correlation coefficient: r = 0.999748, r^2 = 0.999497
Calibration curve: 1.17138 * x + 0.135054
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

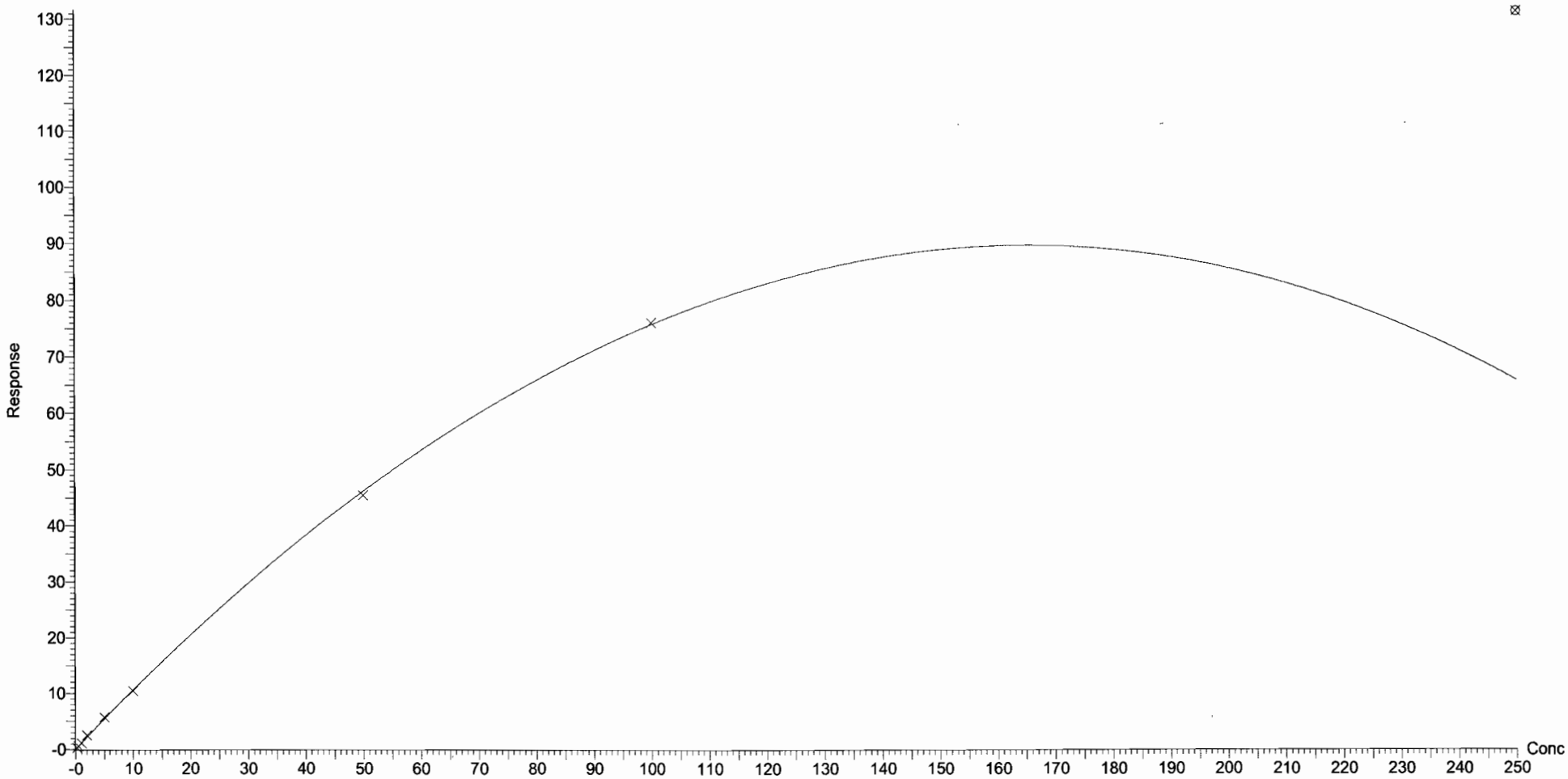
Compound name: PFHxS
Coefficient of Determination: R^2 = 0.999663
Calibration curve: 0.000305292 * x^2 + 1.59136 * x + 0.0435455
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

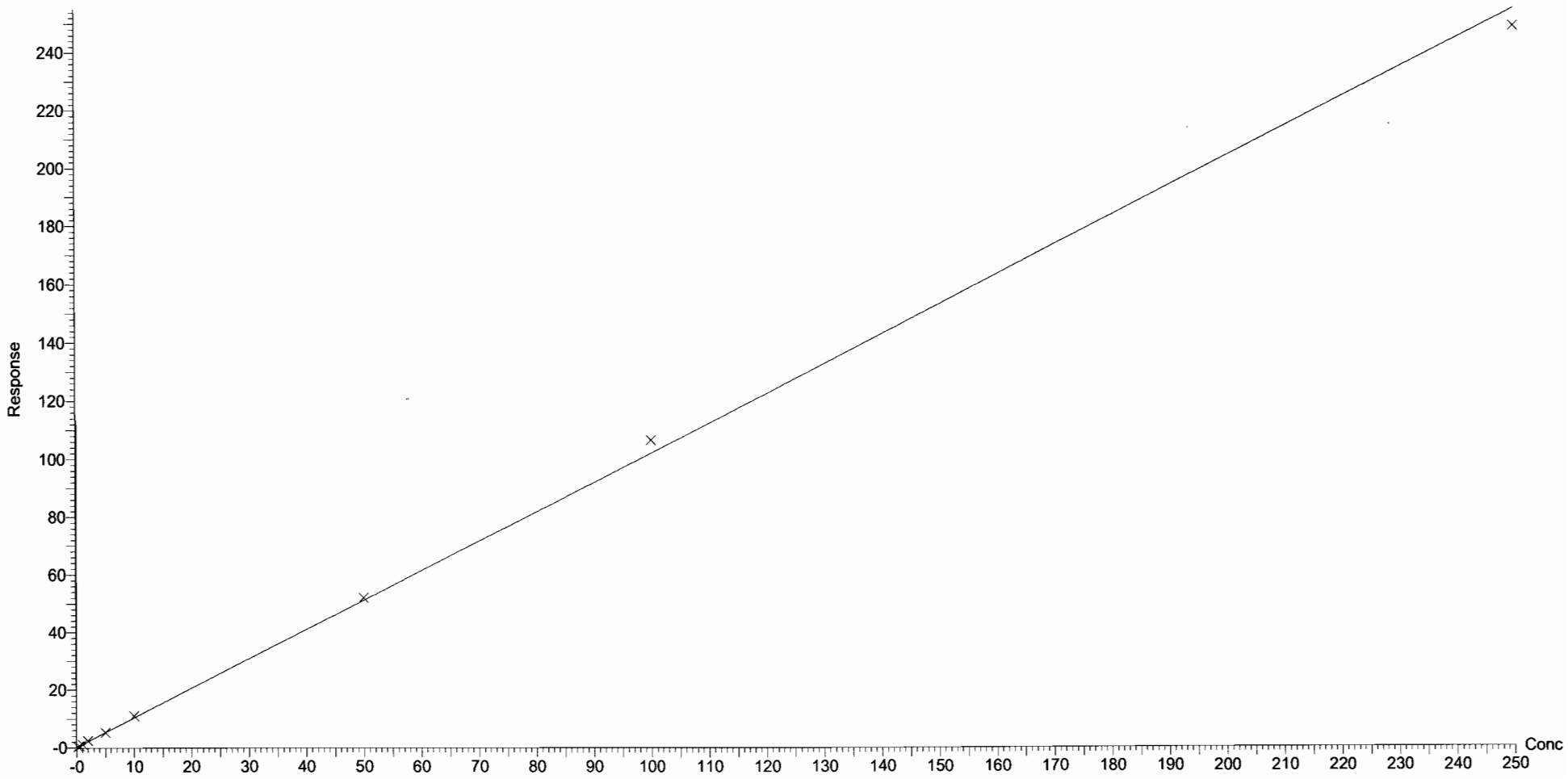
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.999249
Calibration curve: -0.0032912 * x^2 + 1.08665 * x + 0.073737
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

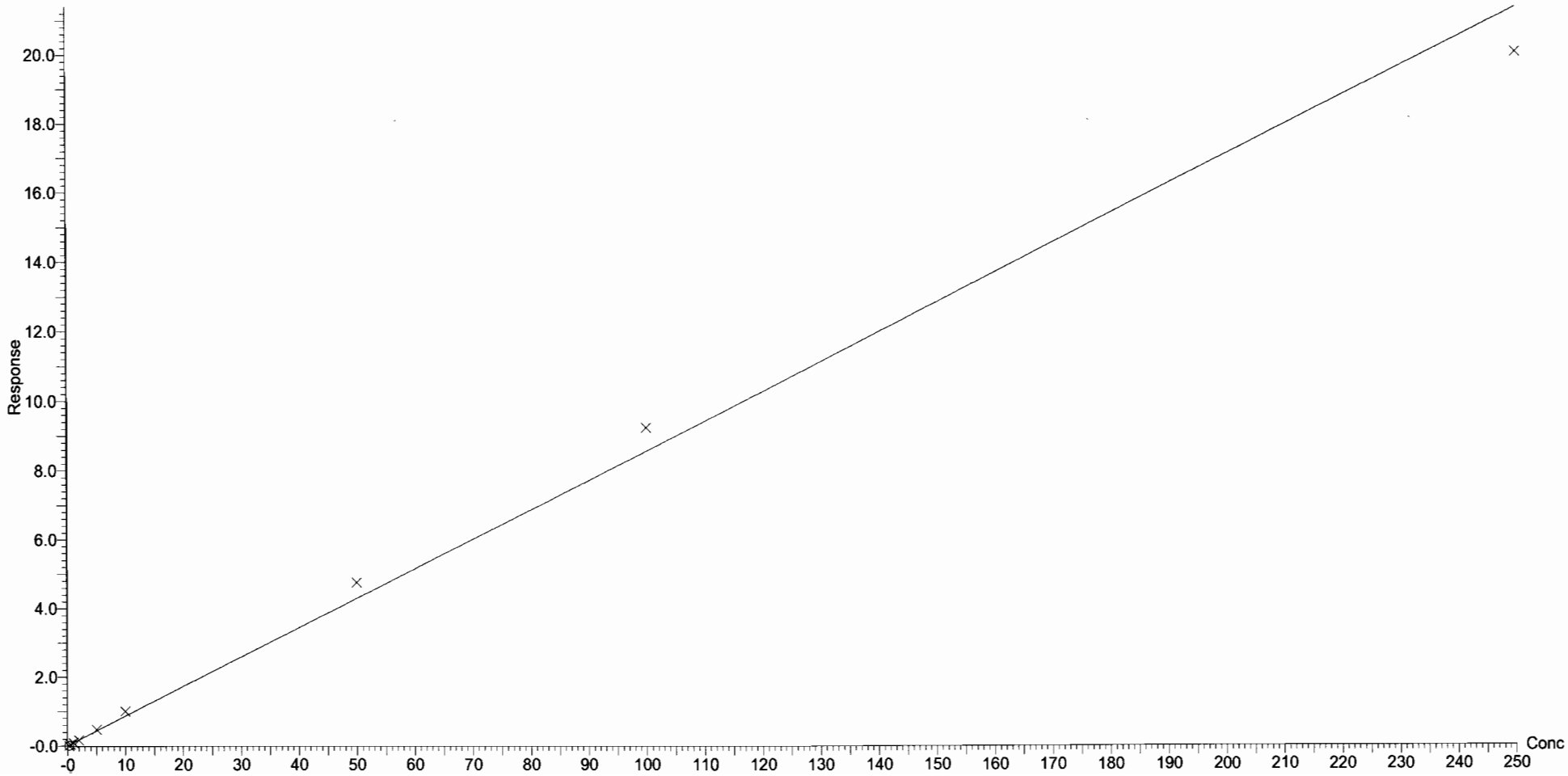
Compound name: PFOA
Correlation coefficient: r = 0.999478, r^2 = 0.998956
Calibration curve: 1.02019 * x + 0.124389
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

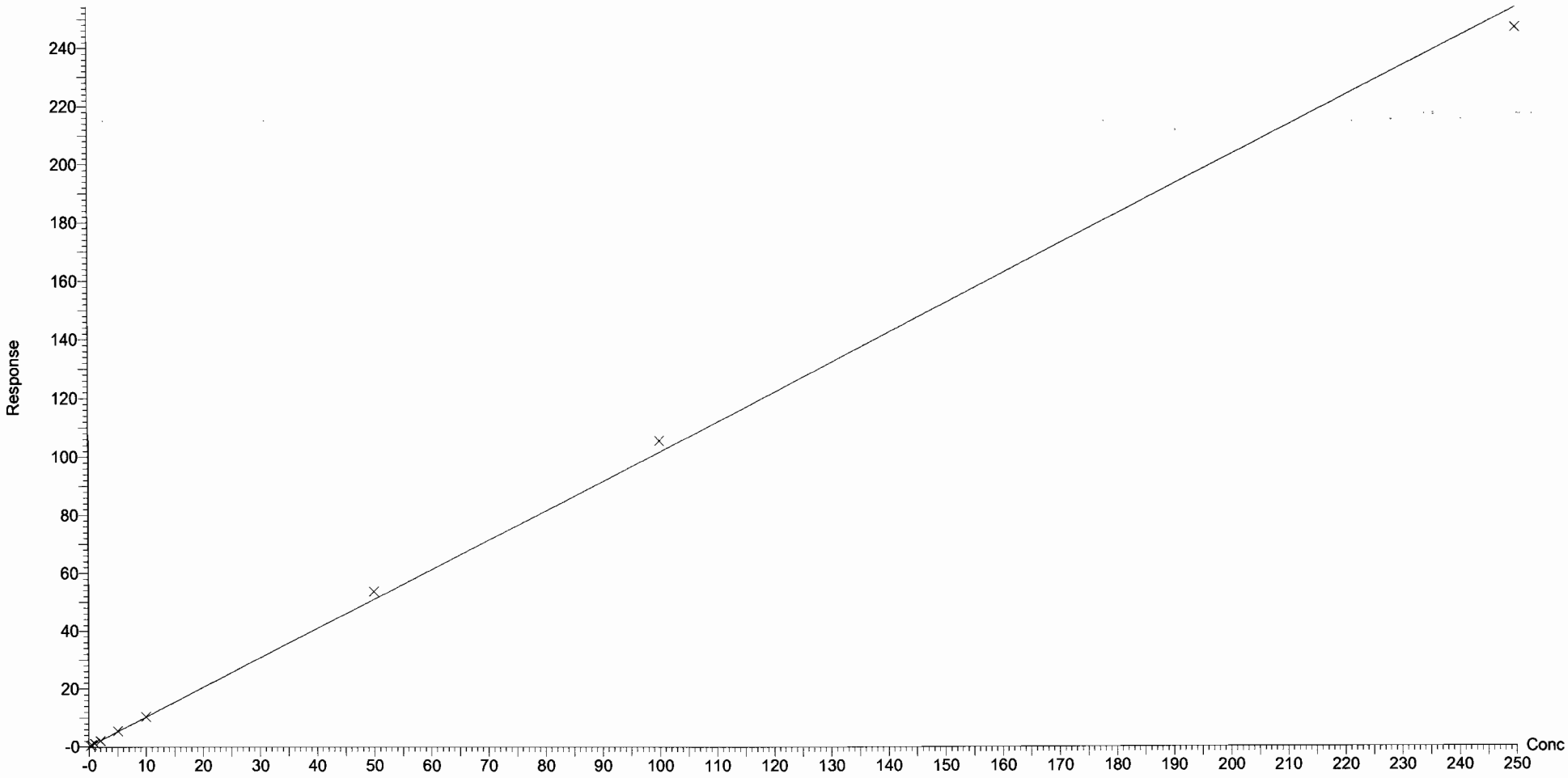
Compound name: PFHpS
Correlation coefficient: r = 0.996944, r^2 = 0.993897
Calibration curve: 0.0855351 * x + 0.0103243
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

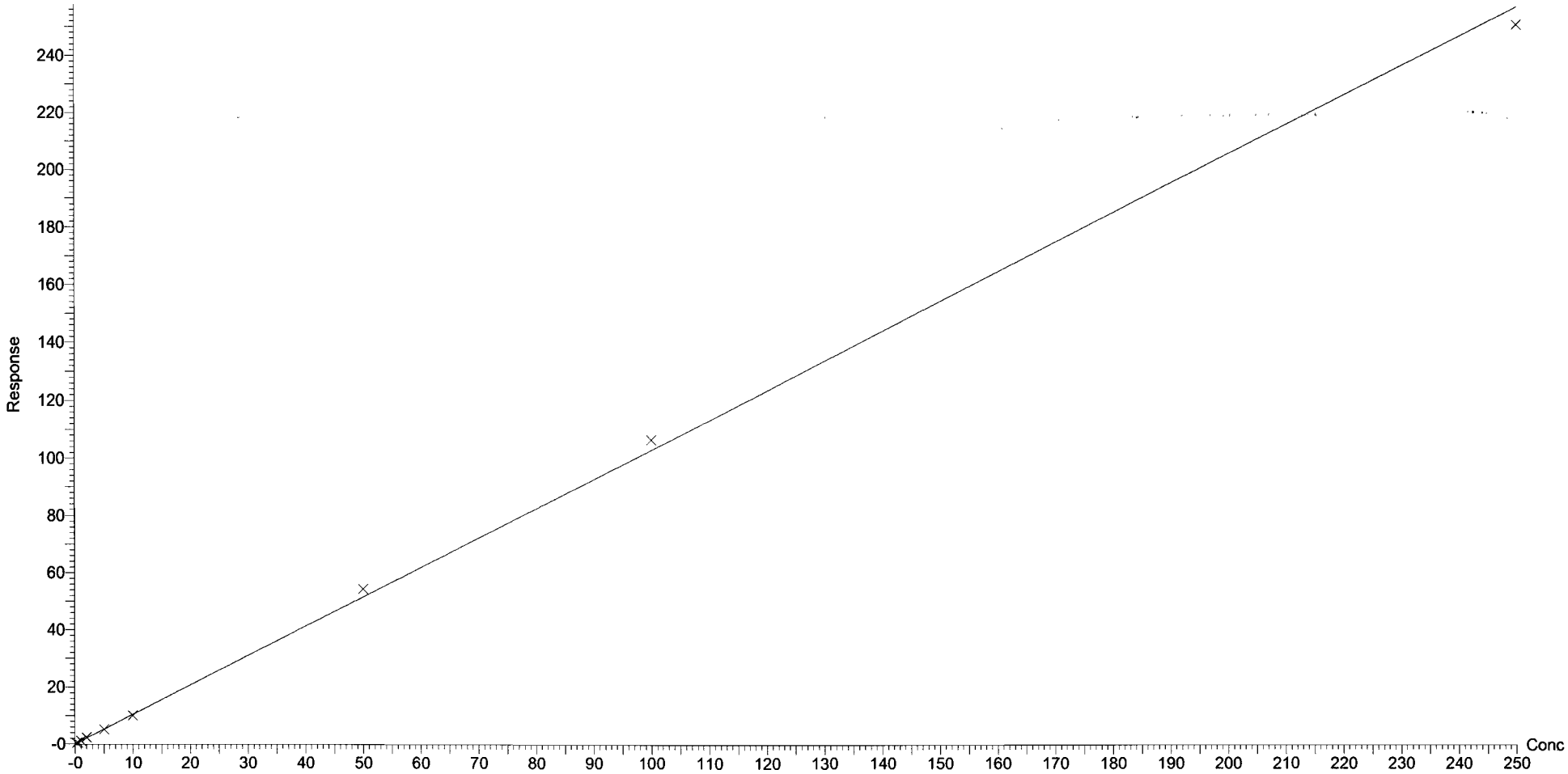
Compound name: PFNA
Correlation coefficient: r = 0.999386, r^2 = 0.998772
Calibration curve: 1.01614 * x + 0.123786
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

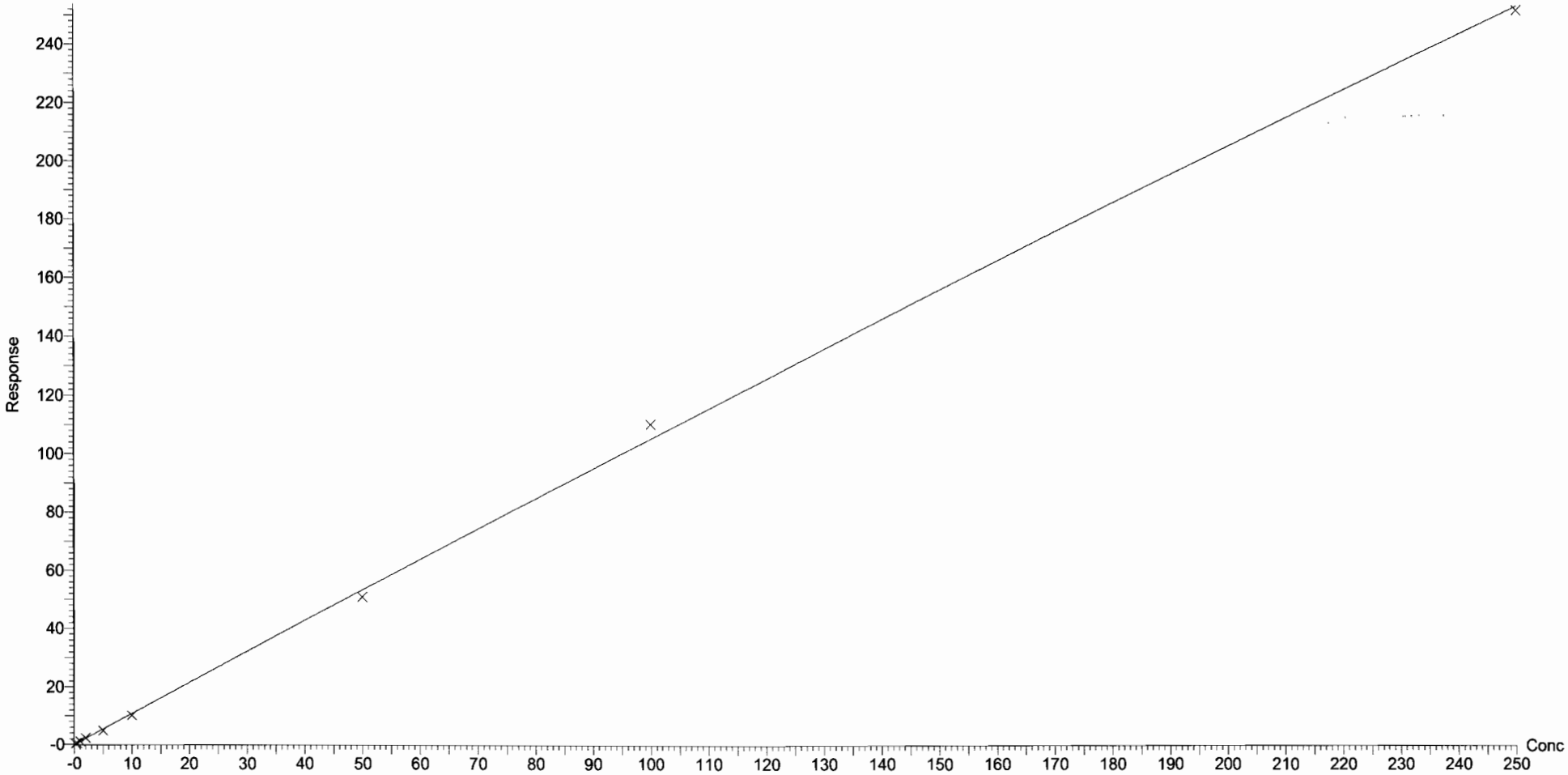
Compound name: PFOSA
Correlation coefficient: r = 0.999425, r^2 = 0.998850
Calibration curve: 1.03039 * x + 0.0764336
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

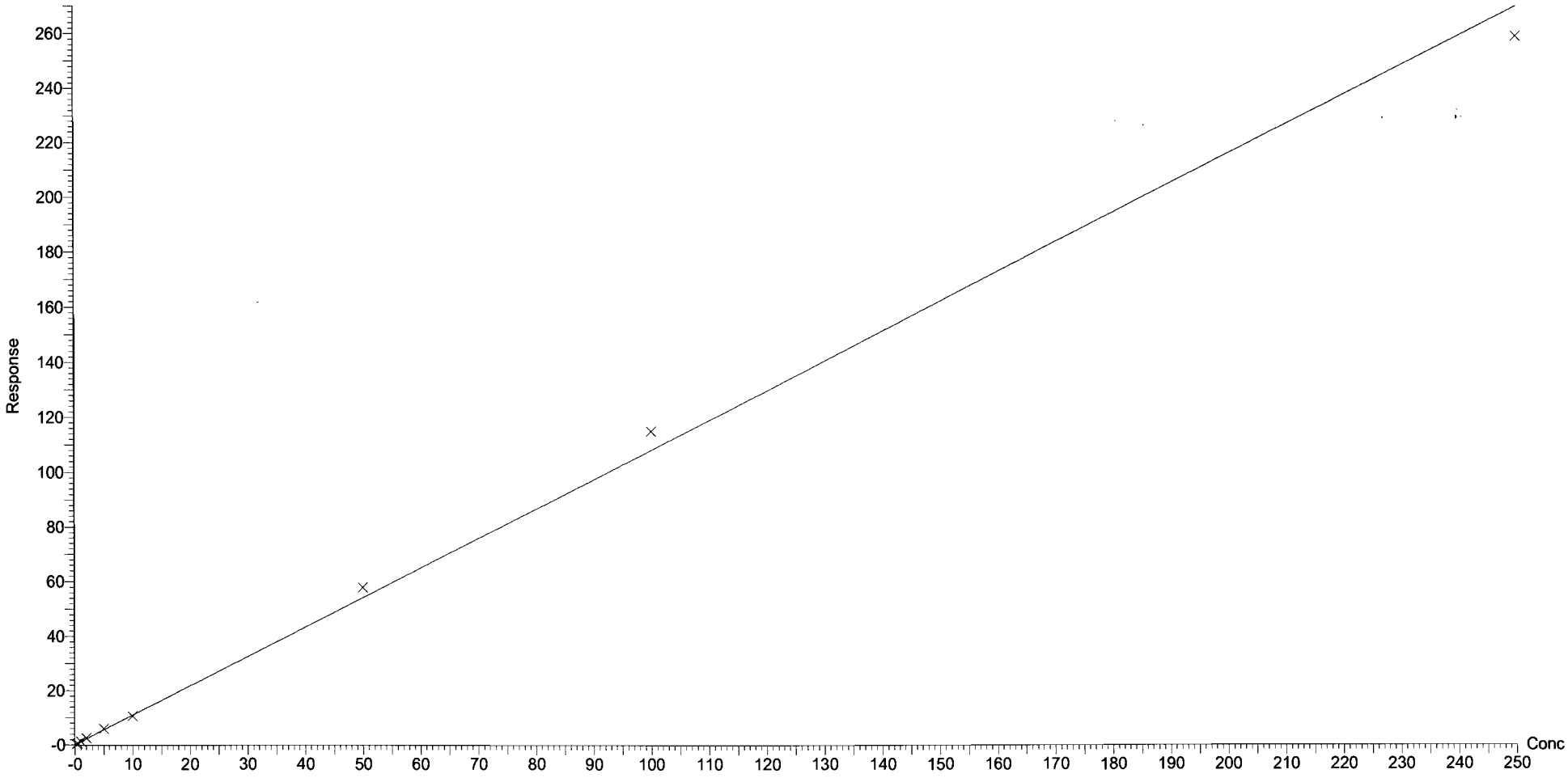
Compound name: PFOS
Coefficient of Determination: R^2 = 0.998812
Calibration curve: -0.000260446 * x^2 + 1.07976 * x + 0.0109438
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

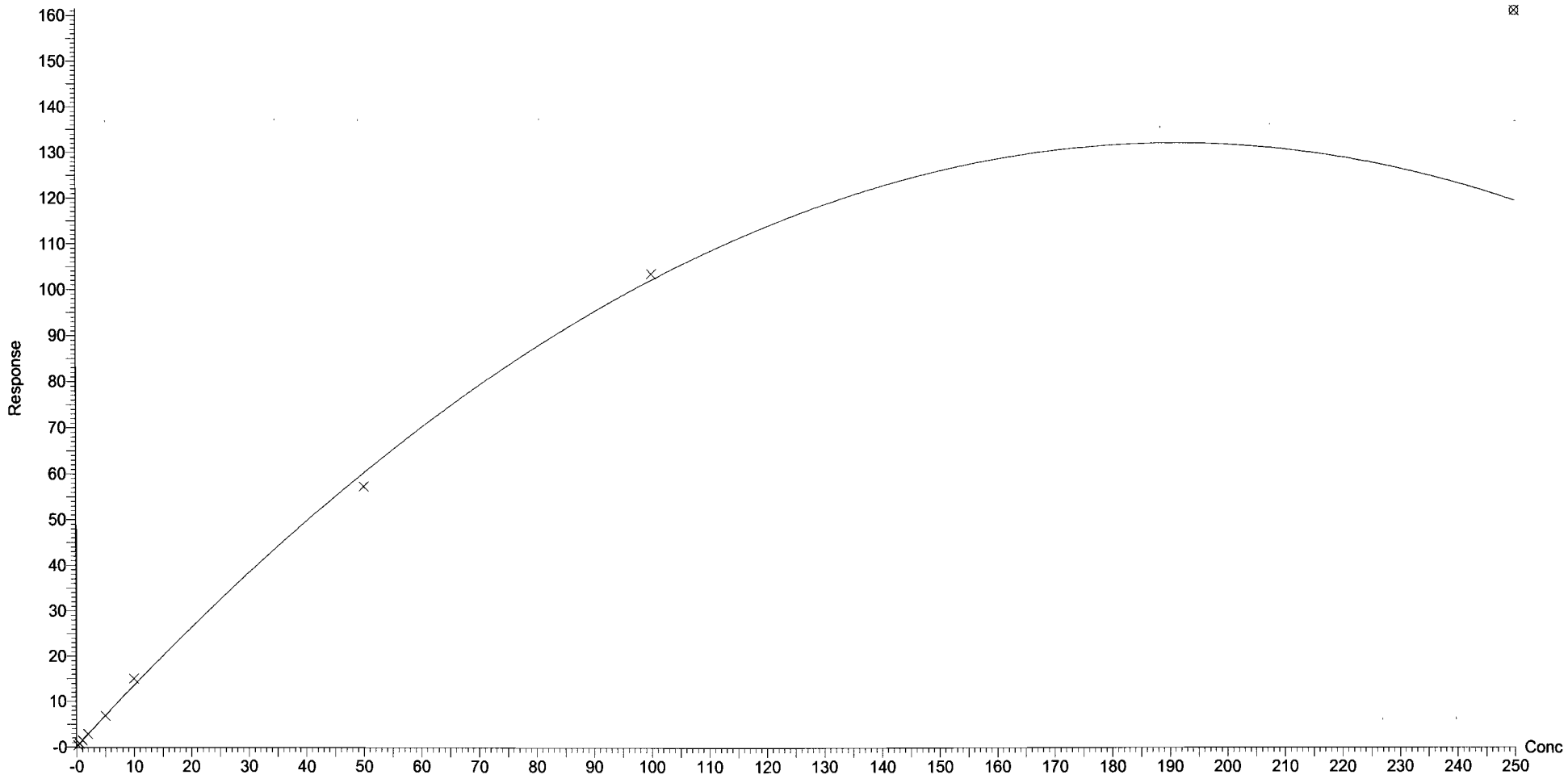
Compound name: PFDA
Correlation coefficient: r = 0.998581, r^2 = 0.997164
Calibration curve: 1.07992 * x + 0.110961
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

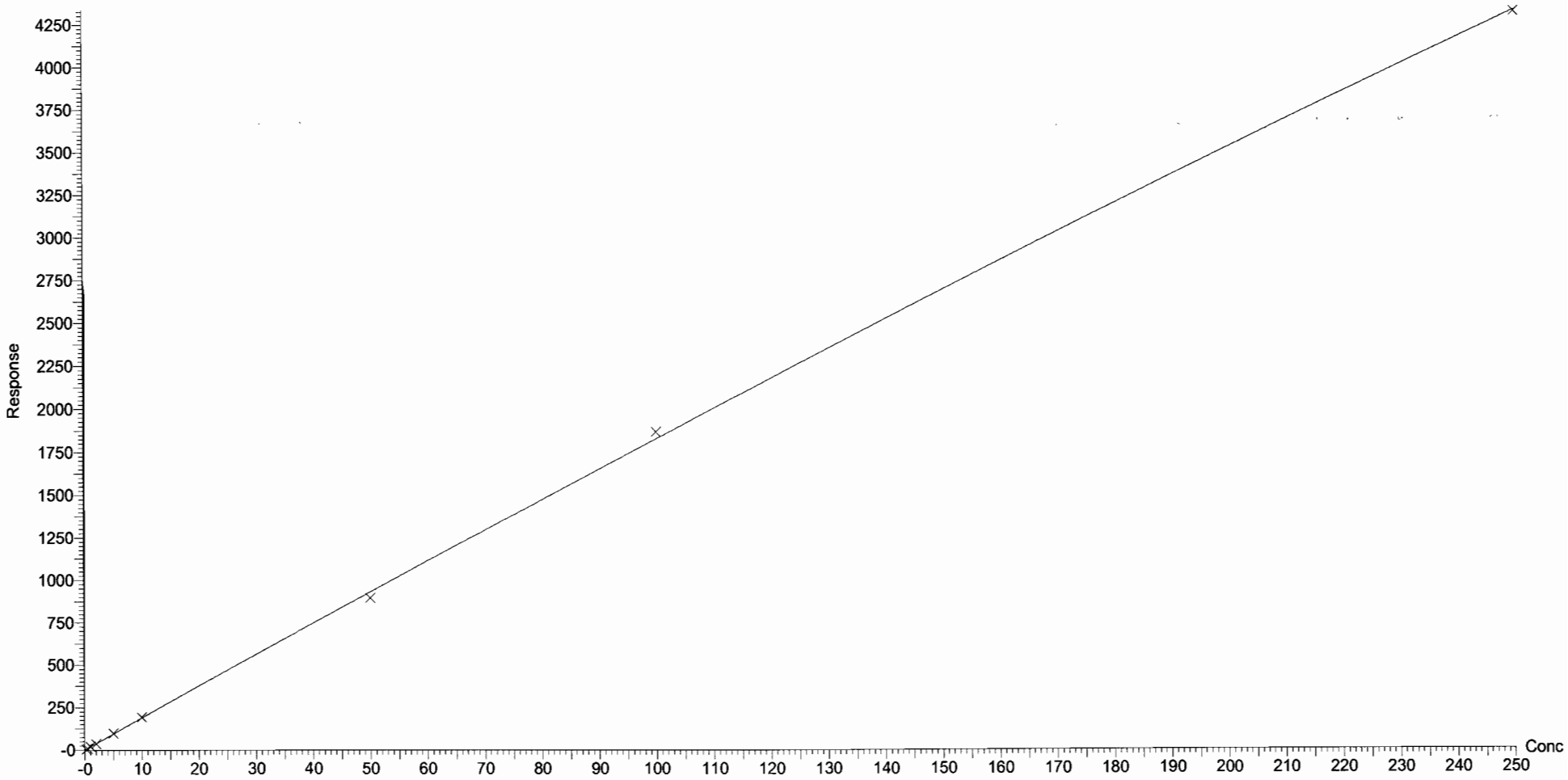
Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.997813
Calibration curve: -0.00362349 * x^2 + 1.38443 * x + 0.0732214
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

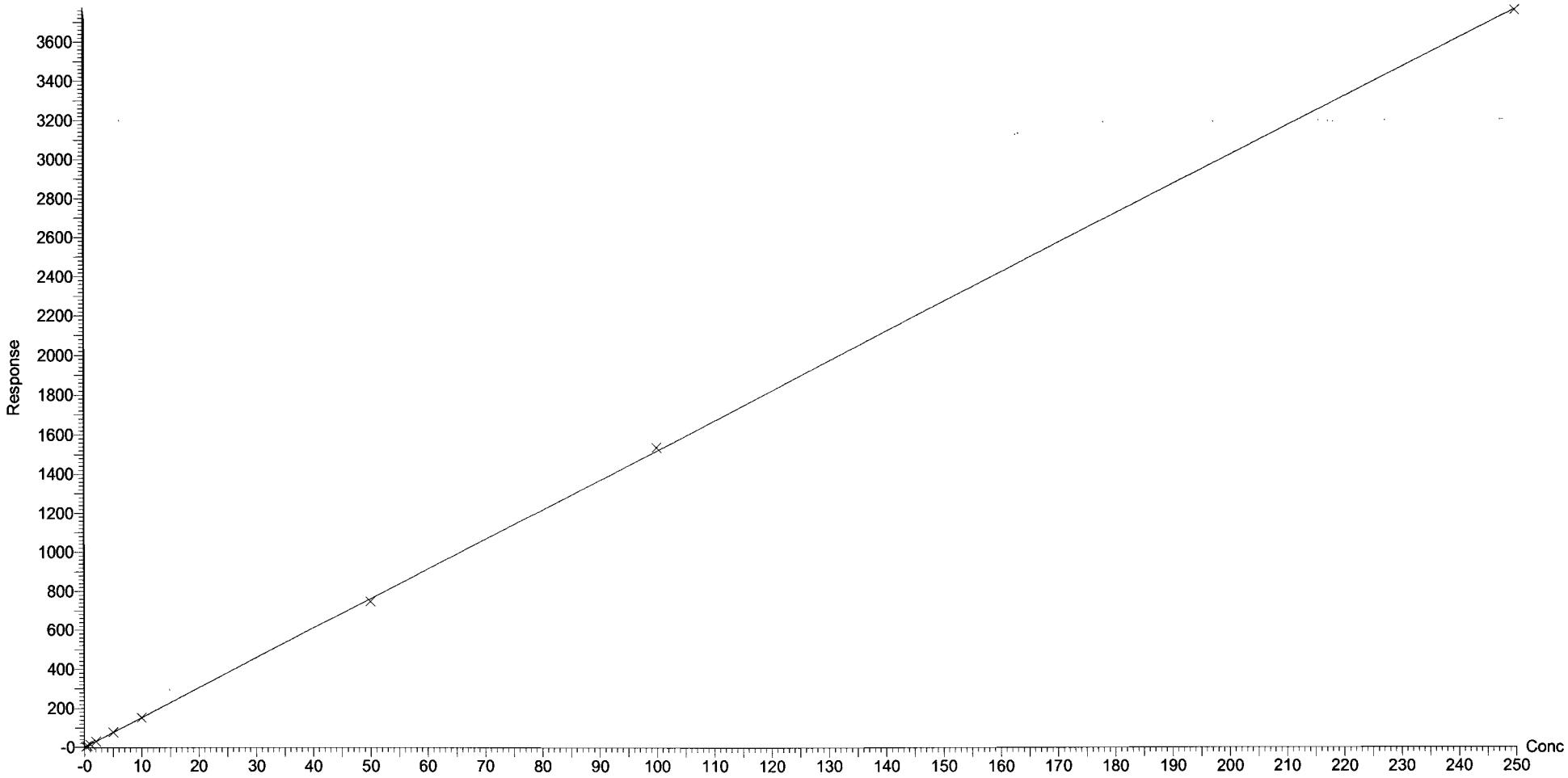
Compound name: N-MeFOSAA
Coefficient of Determination: R^2 = 0.999646
Calibration curve: -0.00630827 * x^2 + 18.9068 * x + 0.242877
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

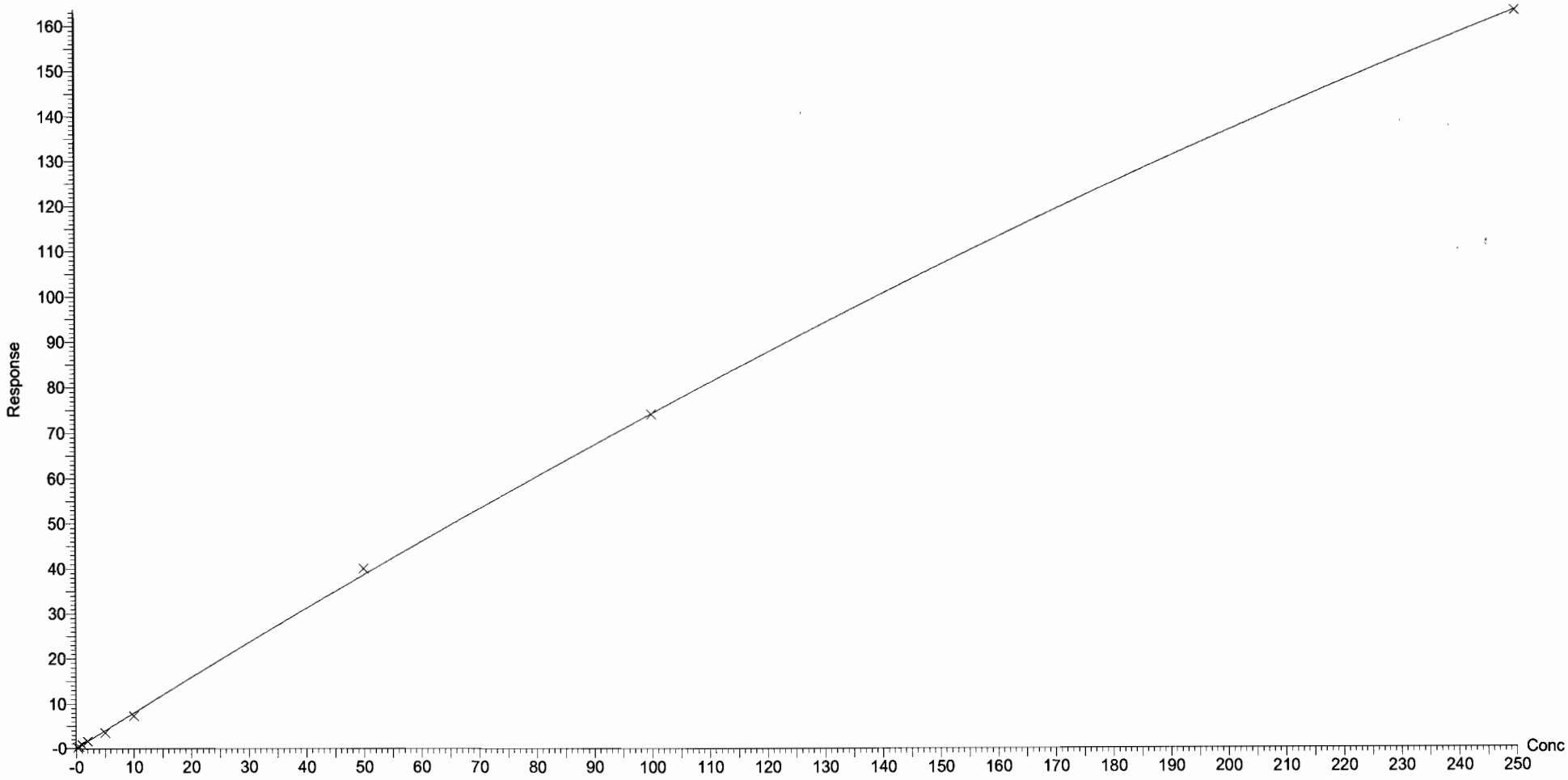
Compound name: N-EtFOSAA
Coefficient of Determination: R^2 = 0.999904
Calibration curve: -0.000711501 * x^2 + 15.2772 * x + 0.0430846
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

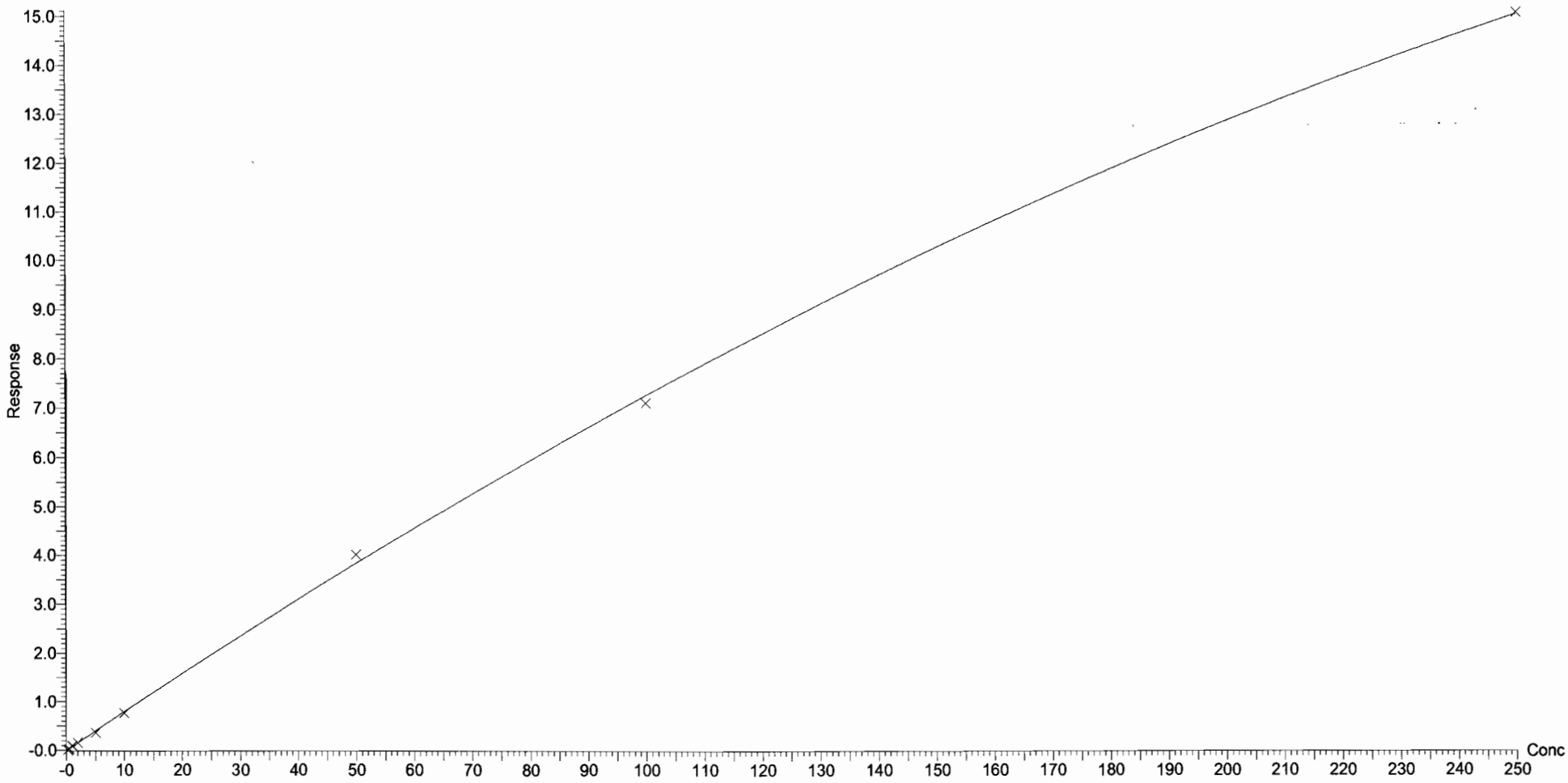
Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999376
Calibration curve: -0.000588077 * x^2 + 0.801719 * x + 0.0128746
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

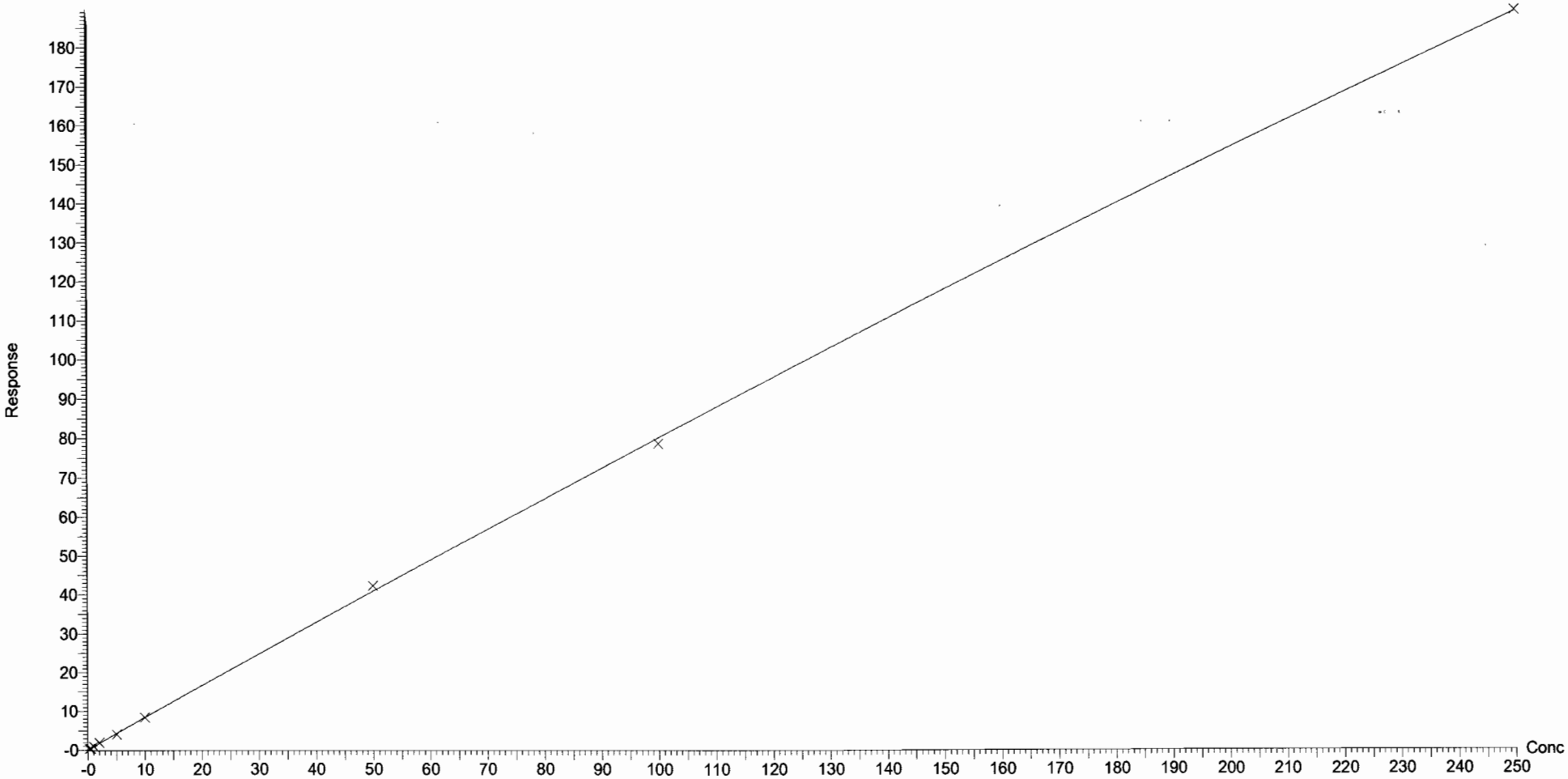
Compound name: PFDS
Coefficient of Determination: R^2 = 0.999184
Calibration curve: -8.27061e-005 * x^2 + 0.0810376 * x + -0.00854002
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

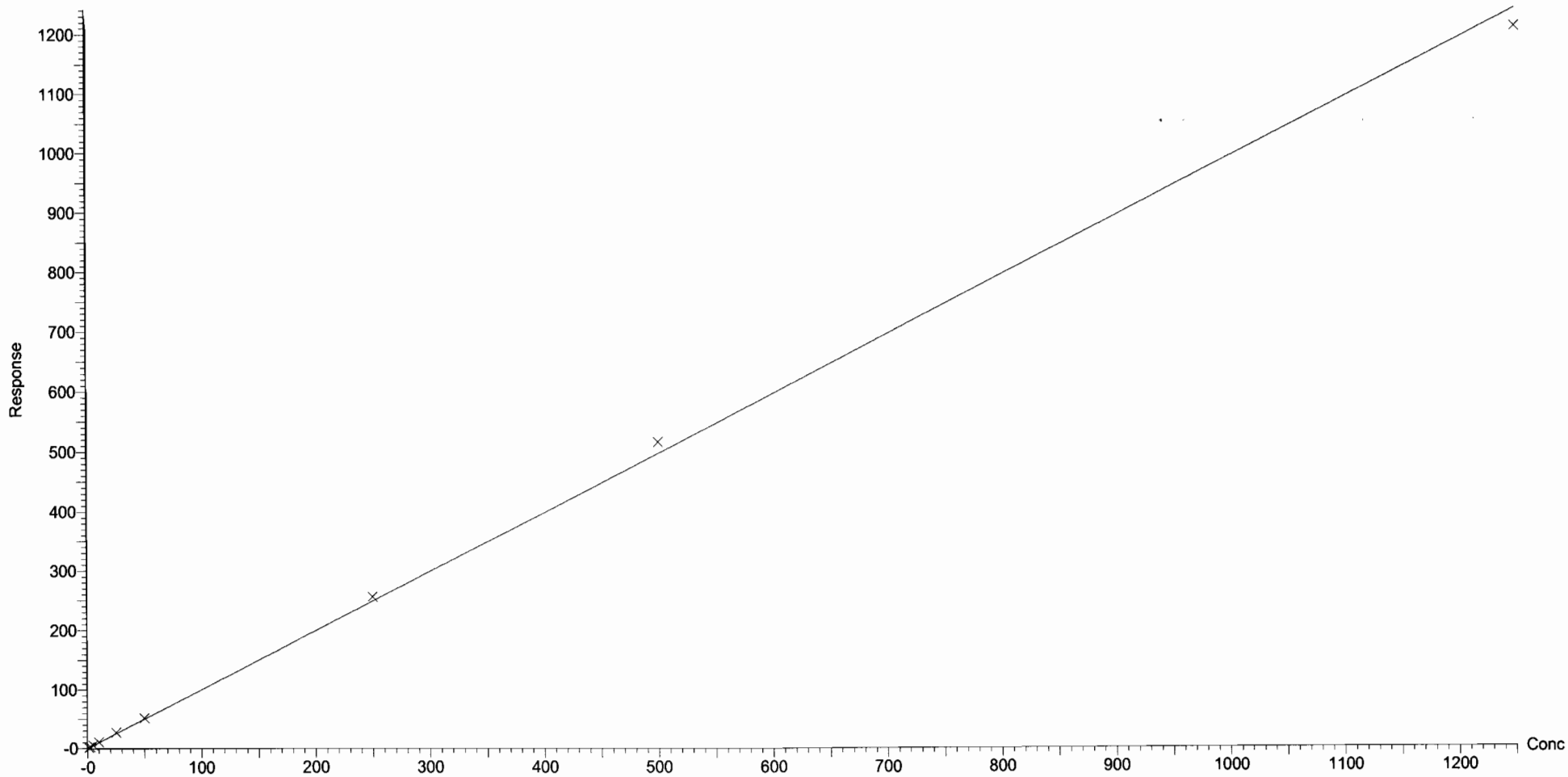
Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999606
Calibration curve: -0.000290067 * x^2 + 0.829421 * x + 0.124205
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

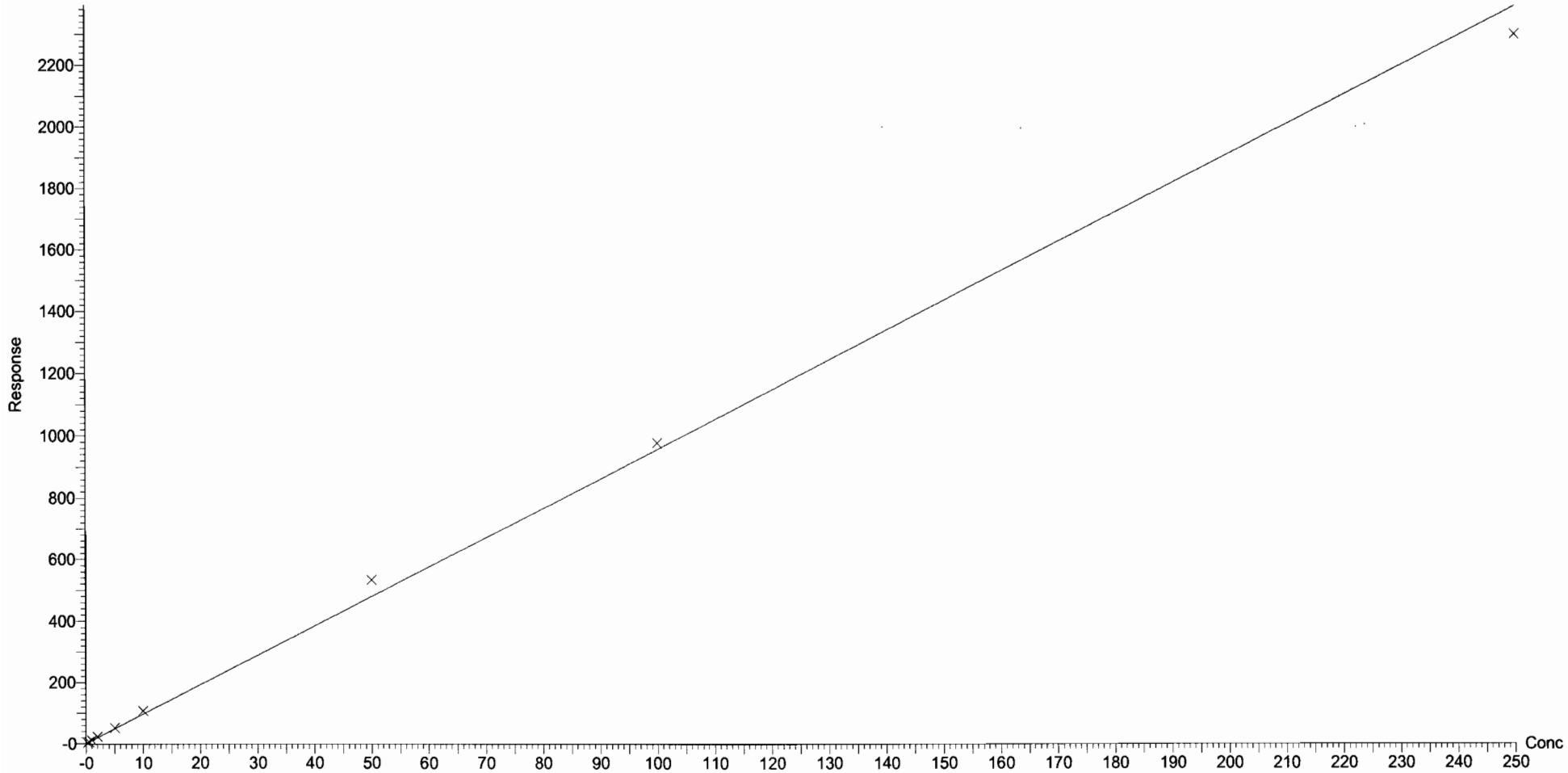
Compound name: N-MeFOSA
Correlation coefficient: r = 0.999473, r^2 = 0.998947
Calibration curve: 0.993024 * x + 0.269269
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

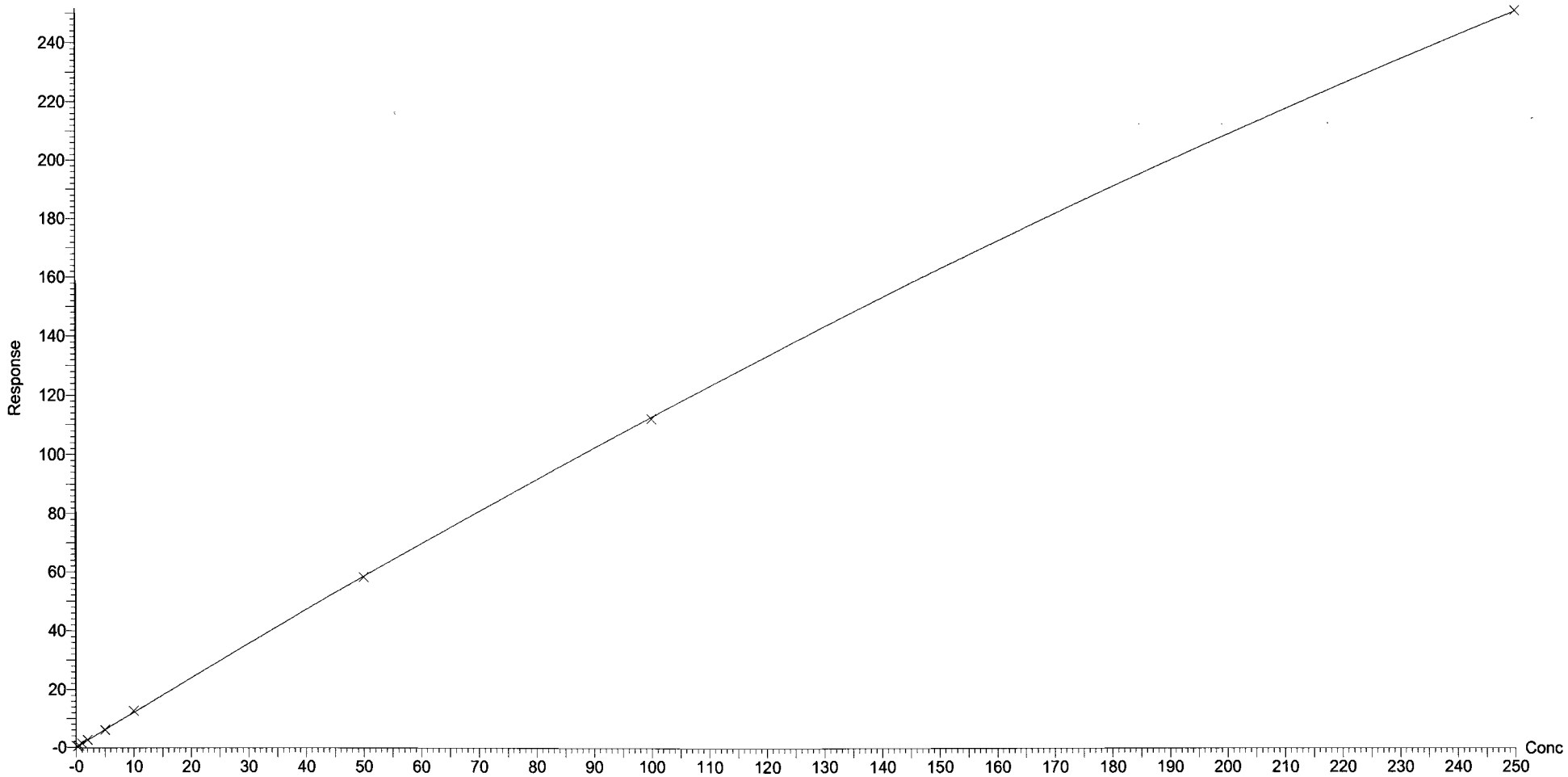
Compound name: PFTrDA
Correlation coefficient: r = 0.998448, r^2 = 0.996898
Calibration curve: 9.57064 * x + 1.03453
Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

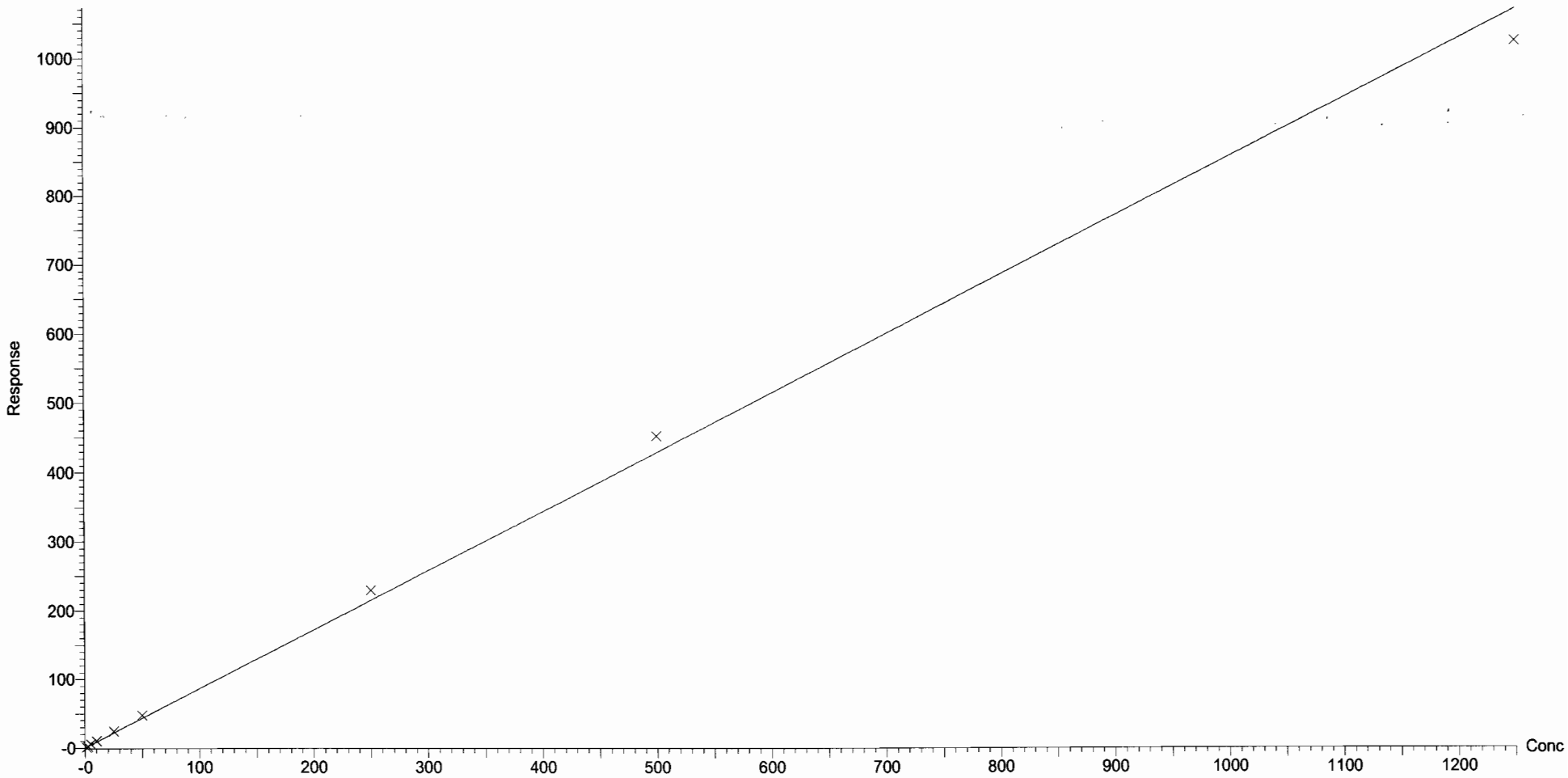
Compound name: PFTeDA
Coefficient of Determination: R^2 = 0.999902
Calibration curve: -0.00082217 * x^2 + 1.21043 * x + 0.0818158
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

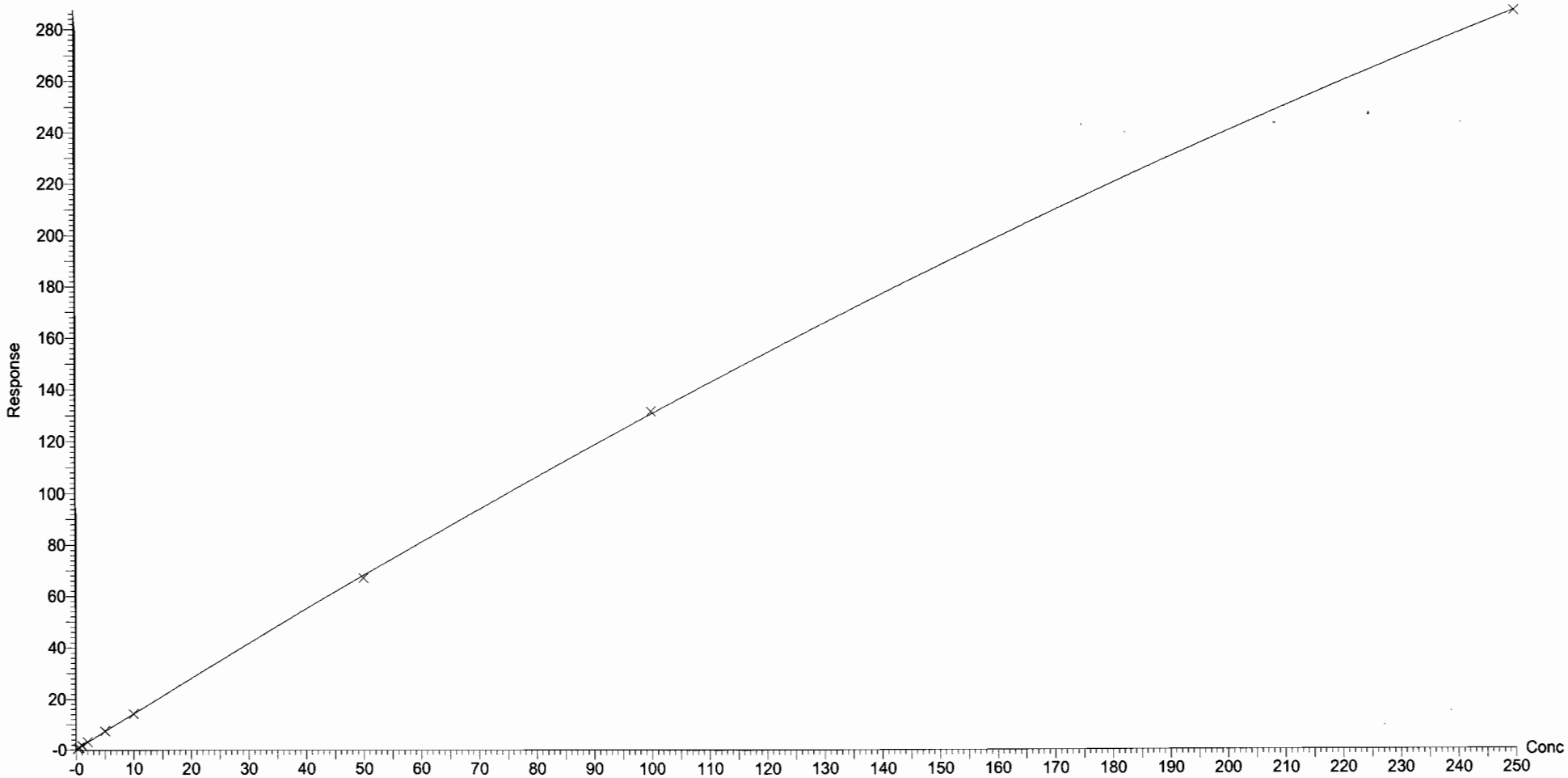
Compound name: N-EtFOSA
Correlation coefficient: r = 0.998426, r^2 = 0.996855
Calibration curve: 0.857593 * x + 0.578749
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

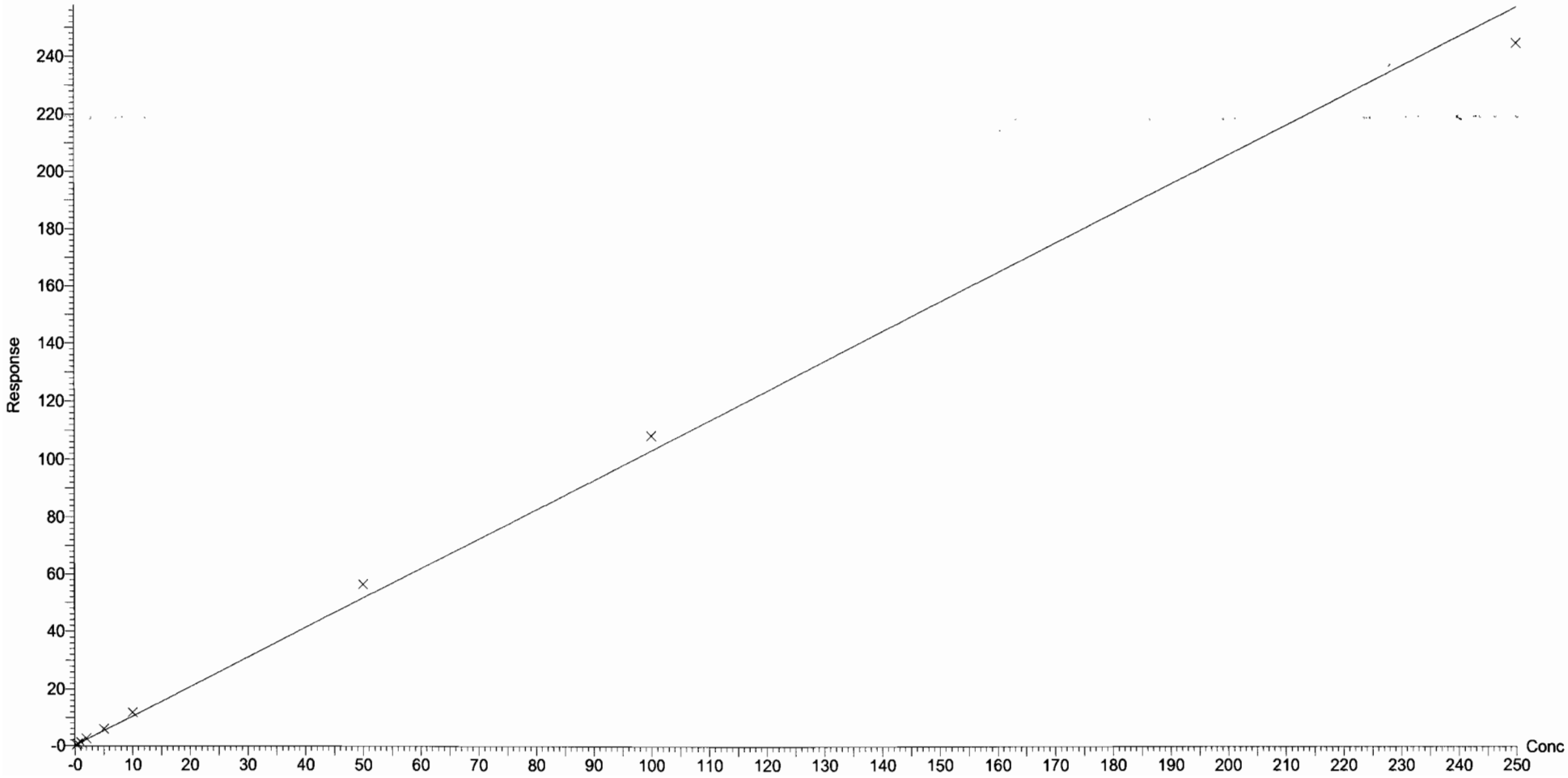
Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999930
Calibration curve: -0.00103788 * x^2 + 1.40897 * x + 0.187282
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

Compound name: PFODA
Correlation coefficient: r = 0.997978, r^2 = 0.995961
Calibration curve: 1.03071 * x + 0.12318
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

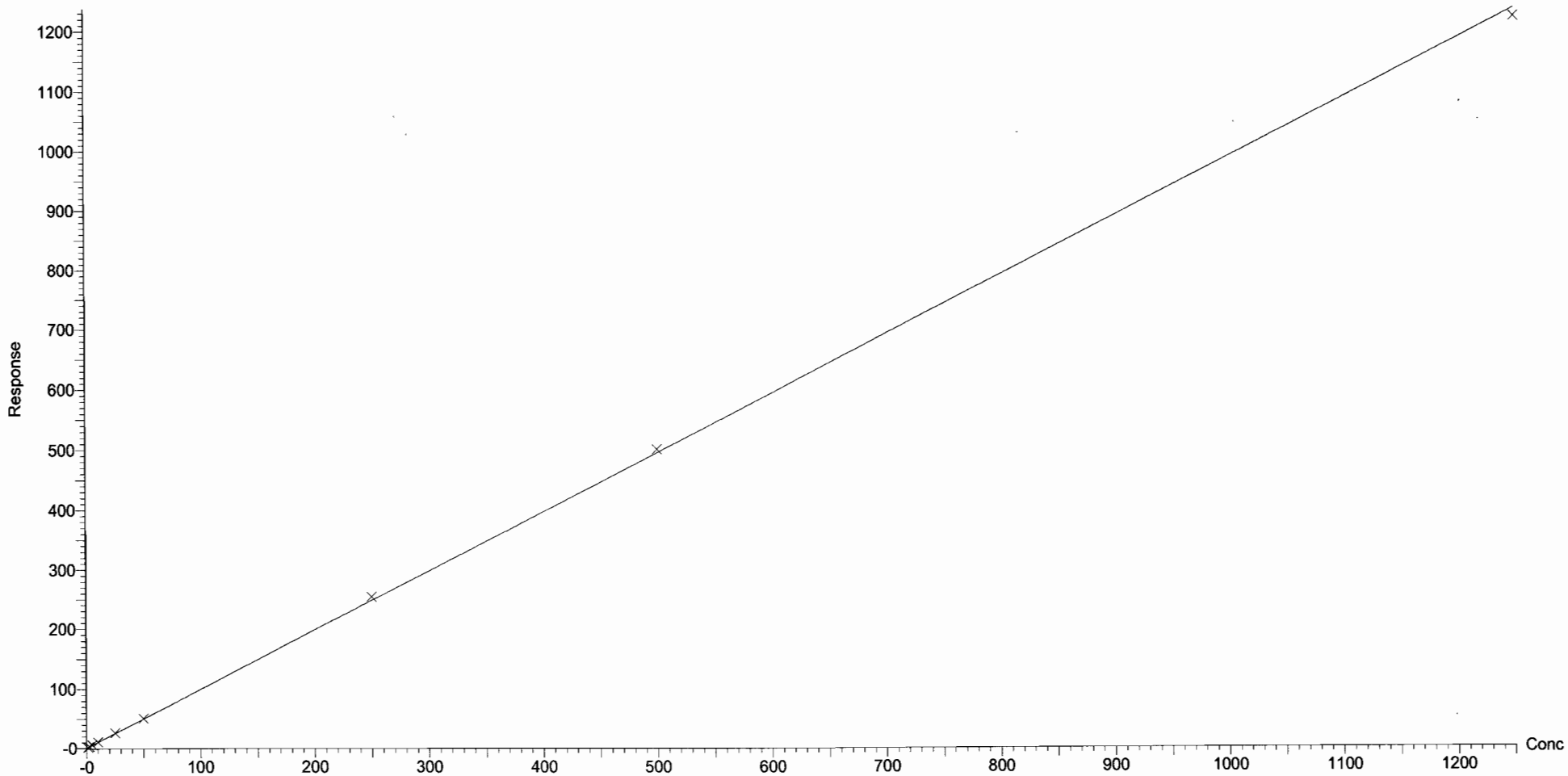


Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

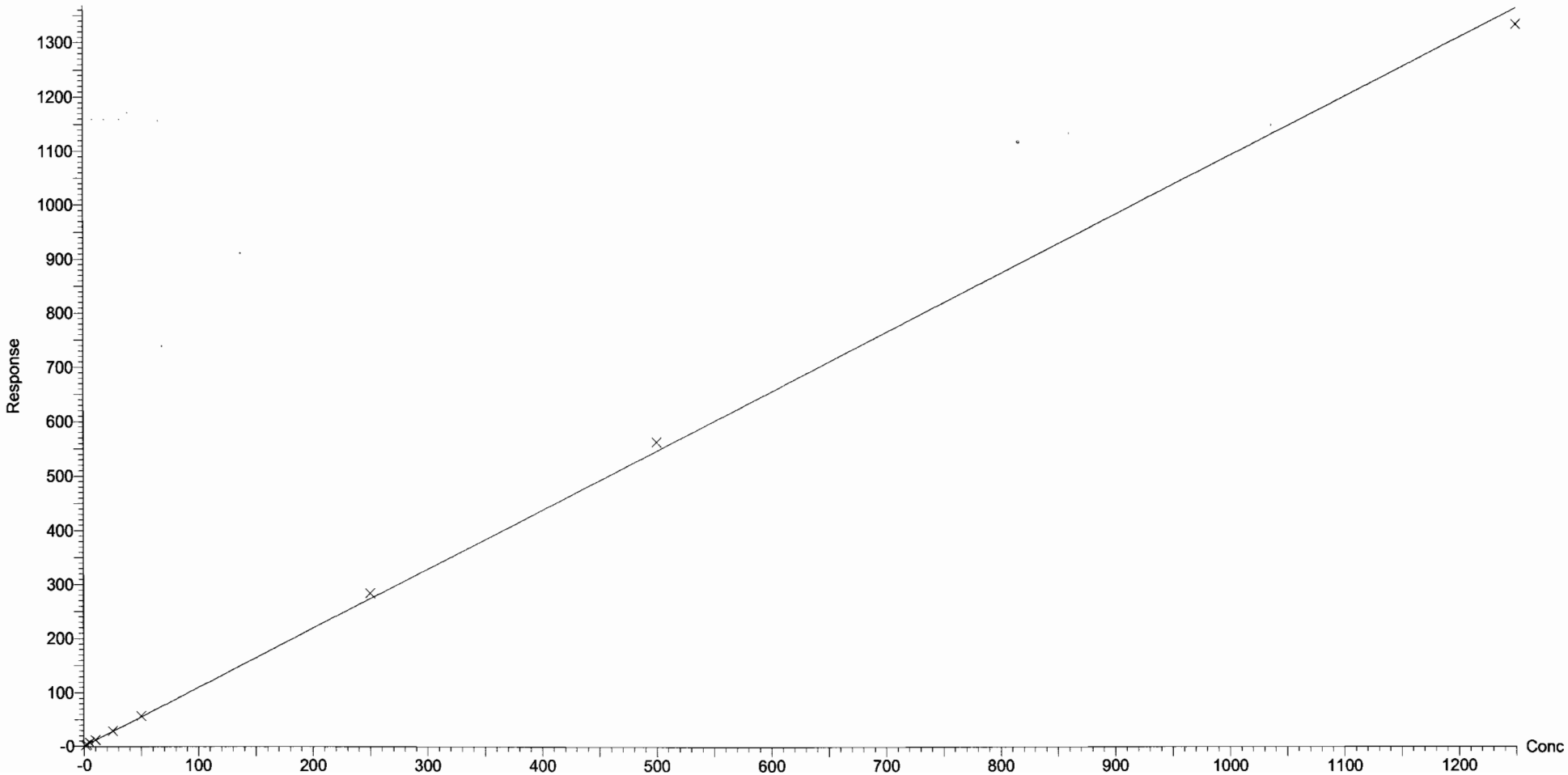
Compound name: N-MeFOSE
Correlation coefficient: r = 0.999880, r^2 = 0.999759
Calibration curve: 0.989741 * x + 0.531756
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:50:25 Pacific Daylight Time

Compound name: N-EtFOSE
Correlation coefficient: r = 0.999604, r^2 = 0.999209
Calibration curve: 1.09342 * x + 0.642295
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



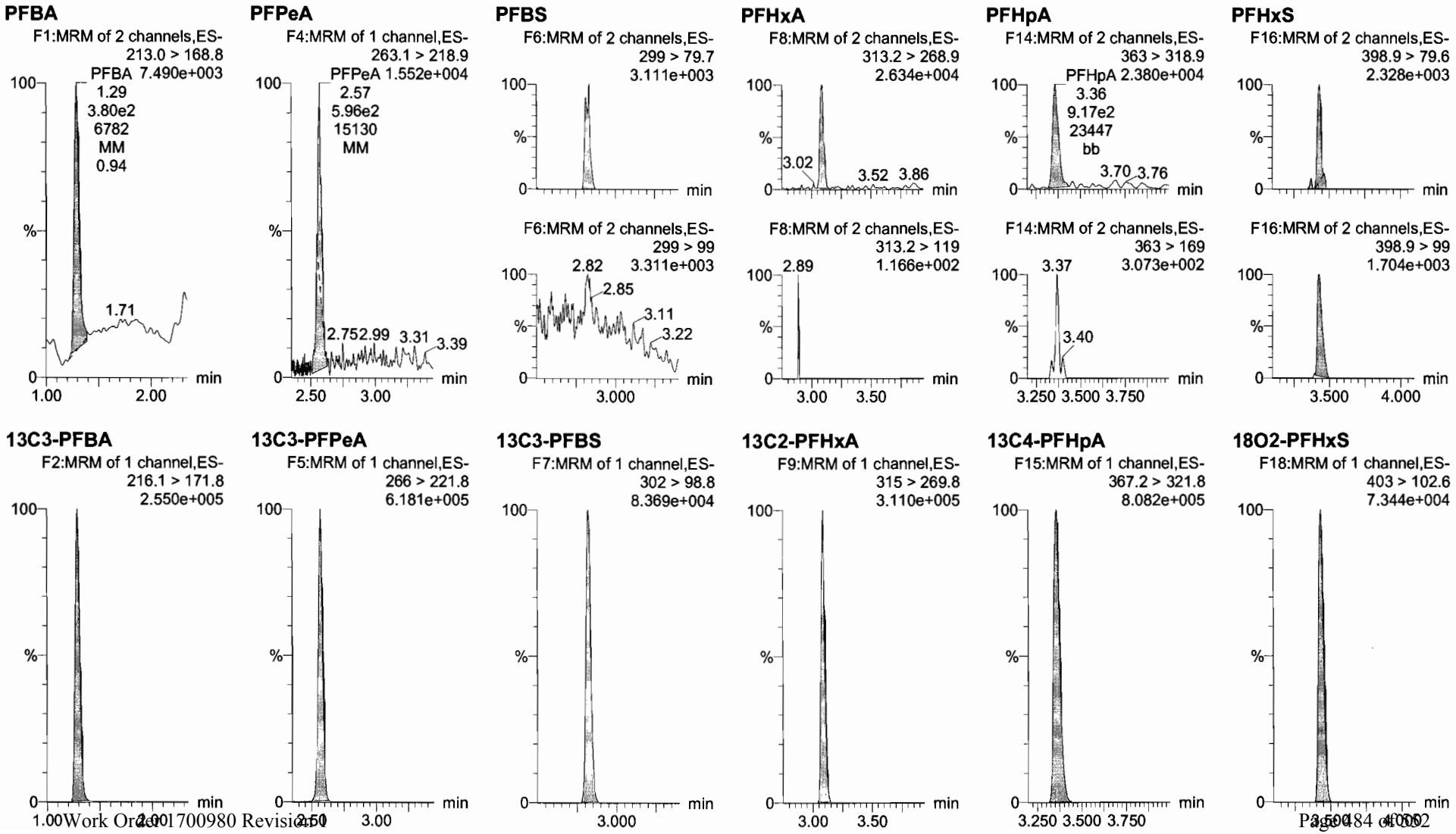
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: 22 Aug 2017 13:46:03

Name: 170822M1_2, Date: 22-Aug-2017, Time: 11:02:26, ID: ST170822M1-1 PFC CS-2 17H2202, Description: PFC CS-2 17H2202

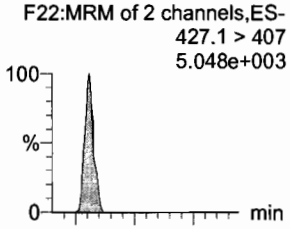


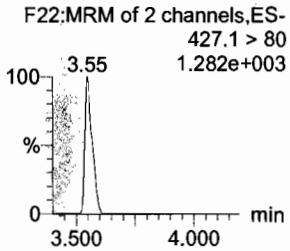
Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

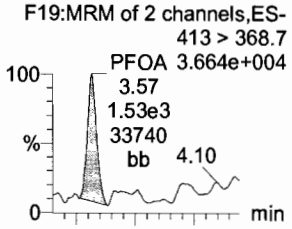
Name: 170822M1_2, Date: 22-Aug-2017, Time: 11:02:26, ID: ST170822M1-1 PFC CS-2 17H2202, Description: PFC CS-2 17H2202

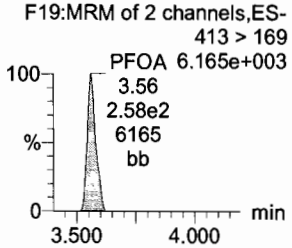
6:2 FTS



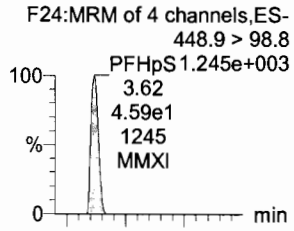


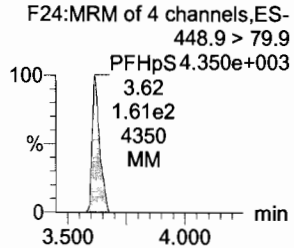
PFOA



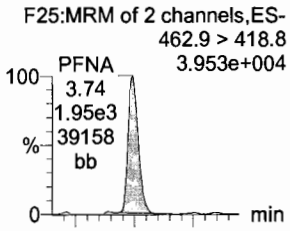


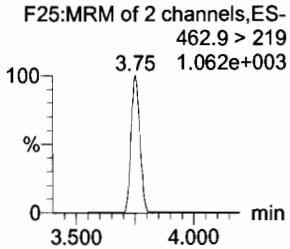
PFHpS



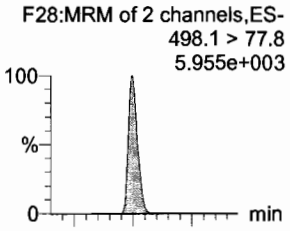


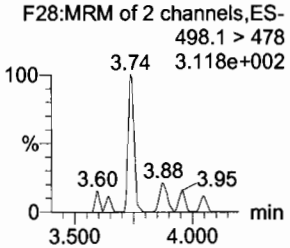
PFNA



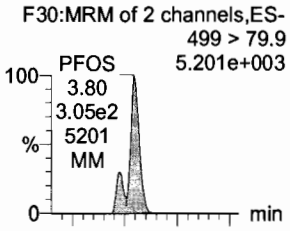


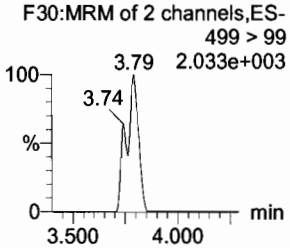
PFOSA



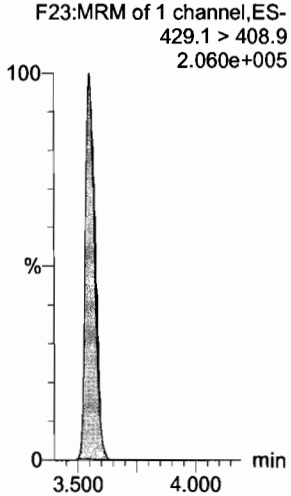


PFOS

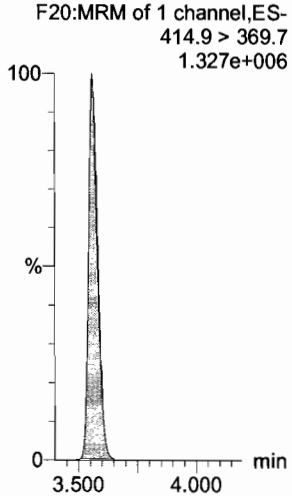




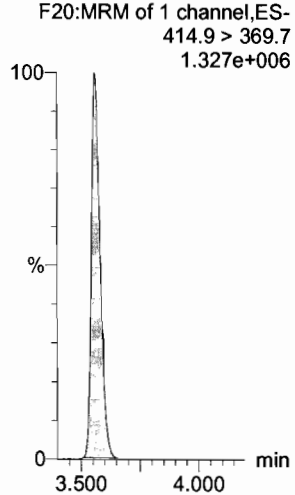
13C2-6:2 FTS



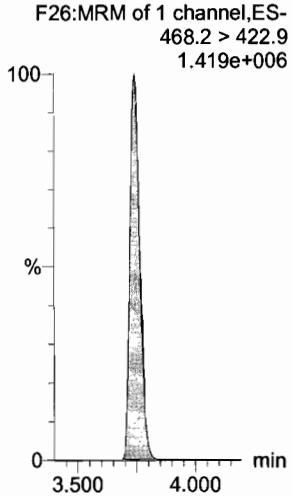
13C2-PFOA



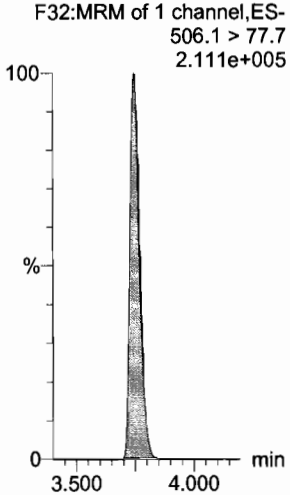
13C2-PFOA



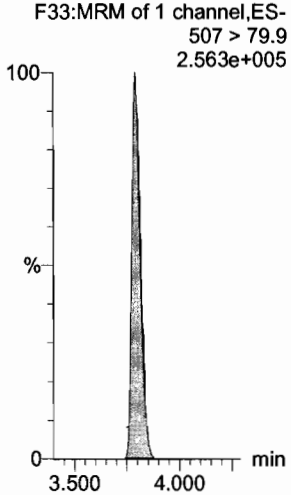
13C5-PFNA



13C8-PFOSA



13C8-PFOS

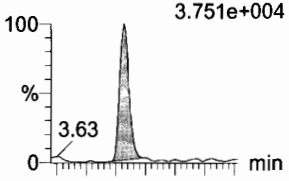


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

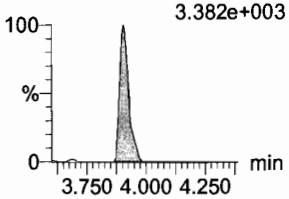
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_2, Date: 22-Aug-2017, Time: 11:02:26, ID: ST170822M1-1 PFC CS-2 17H2202, Description: PFC CS-2 17H2202

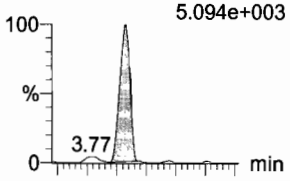
PFDA
F35:MRM of 2 channels,ES-
513 > 468.8
3.751e+004



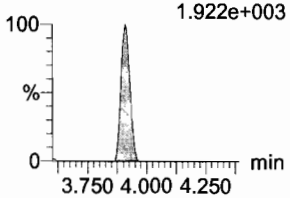
F35:MRM of 2 channels,ES-
513 > 219
3.382e+003



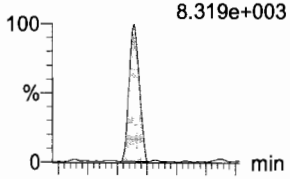
8:2 FTS
F40:MRM of 2 channels,ES-
527 > 506.9
5.094e+003



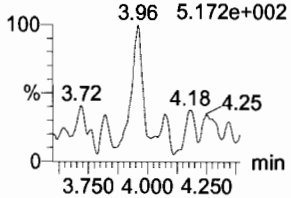
F40:MRM of 2 channels,ES-
527 > 80
1.922e+003



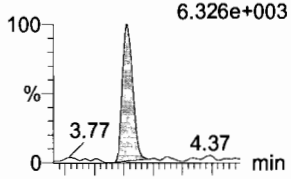
N-MeFOSAA
F45:MRM of 2 channels,ES-
570.1 > 419
8.319e+003



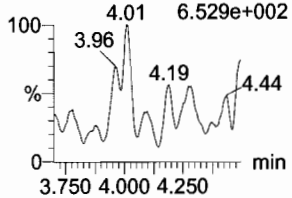
F45:MRM of 2 channels,ES-
570.1 > 483
5.172e+002



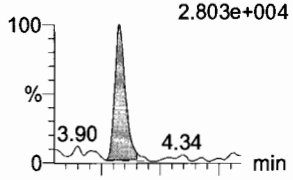
N-EtFOSAA
F48:MRM of 2 channels,ES-
584.2 > 419
6.326e+003



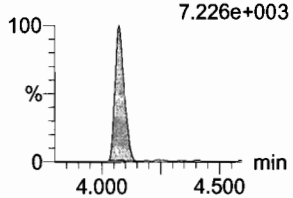
F48:MRM of 2 channels,ES-
584.2 > 483
6.529e+002



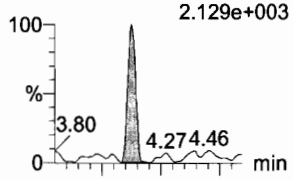
PFUnA
F43:MRM of 2 channels,ES-
562.9 > 518.9
2.803e+004



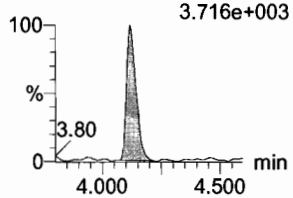
F43:MRM of 2 channels,ES-
562.9 > 269
7.226e+003



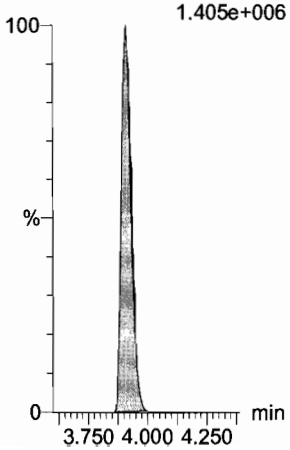
PFDS
F50:MRM of 2 channels,ES-
598.9 > 98.7
2.129e+003



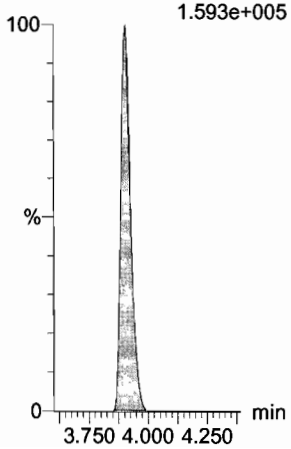
F50:MRM of 2 channels,ES-
598.9 > 80
3.716e+003



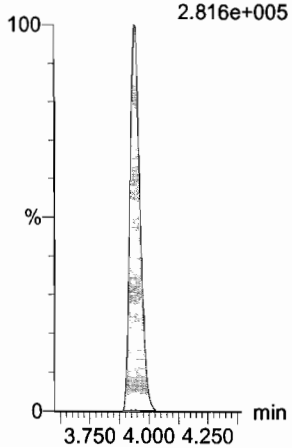
13C2-PFDA
F36:MRM of 1 channel,ES-
515.1 > 469.9
1.405e+006



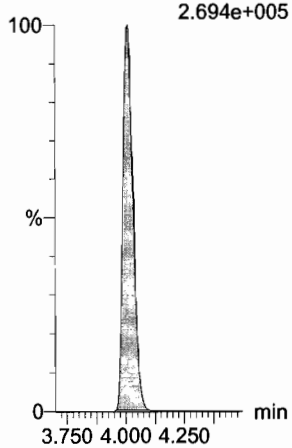
13C2-8:2 FTS
F41:MRM of 1 channel,ES-
529.1 > 508.7
1.593e+005



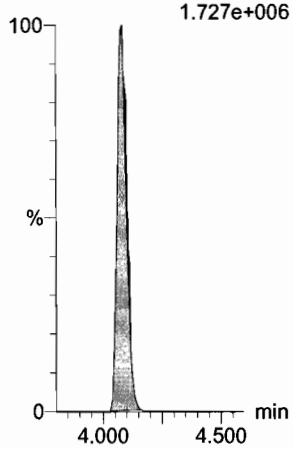
d3-N-MeFOSAA
F47:MRM of 1 channel,ES-
573.3 > 419
2.816e+005



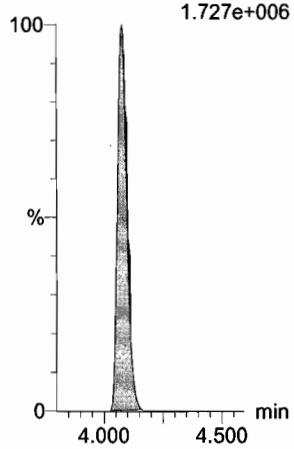
d5-N-EtFOSAA
F49:MRM of 1 channel,ES-
589.3 > 419
2.694e+005



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.727e+006



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.727e+006

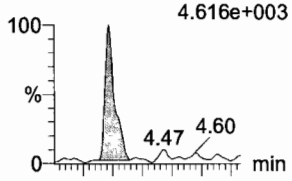


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

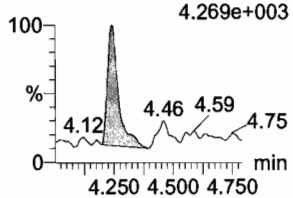
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_2, Date: 22-Aug-2017, Time: 11:02:26, ID: ST170822M1-1 PFC CS-2 17H2202, Description: PFC CS-2 17H2202

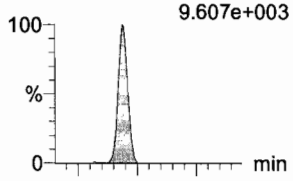
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
4.616e+003



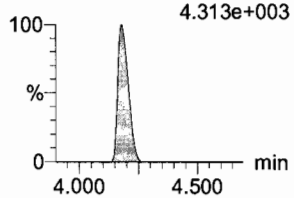
F51:MRM of 2 channels,ES-
612.9 > 569
4.269e+003



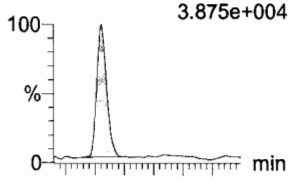
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
9.607e+003



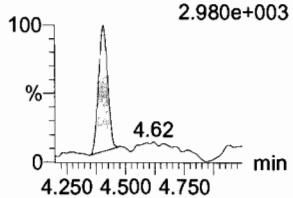
F34:MRM of 2 channels,ES-
512.1 > 219
4.313e+003



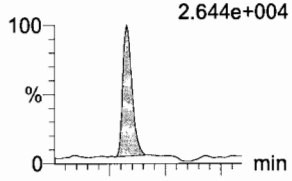
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
3.875e+004



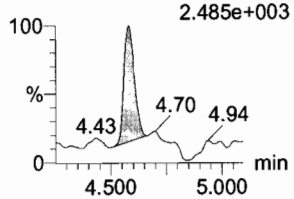
F57:MRM of 2 channels,ES-
662.9 > 319
2.980e+003



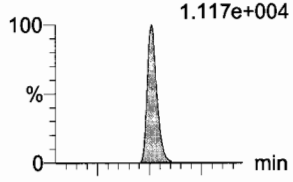
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
2.644e+004



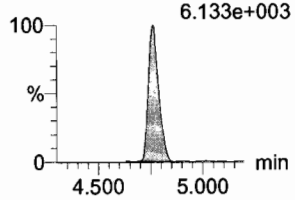
F58:MRM of 4 channels,ES-
712.9 > 369
2.485e+003



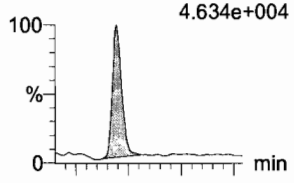
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
1.117e+004



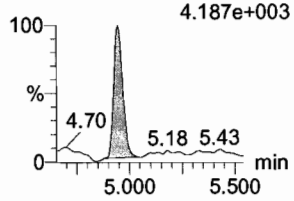
F39:MRM of 2 channels,ES-
526.1 > 219
6.133e+003



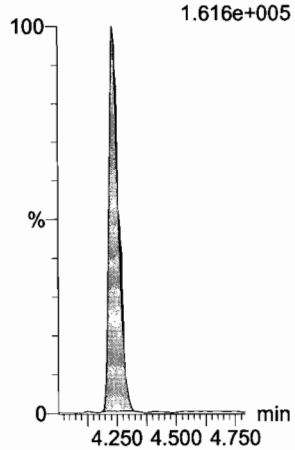
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
4.634e+004



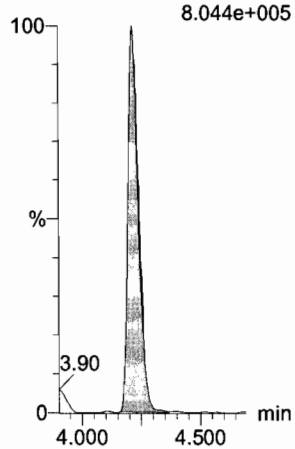
F60:MRM of 2 channels,ES-
812.8 > 219
4.187e+003



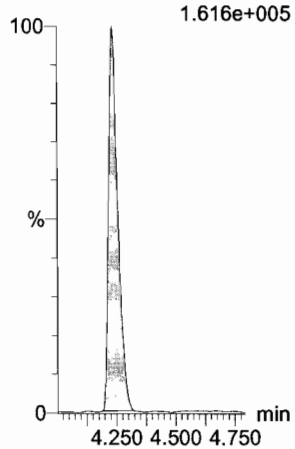
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.616e+005



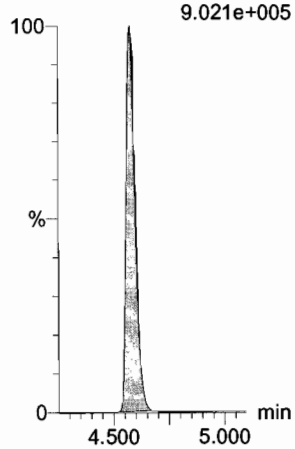
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
8.044e+005



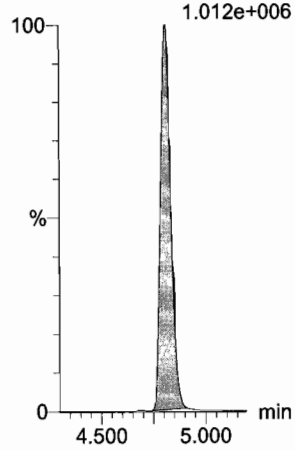
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.616e+005



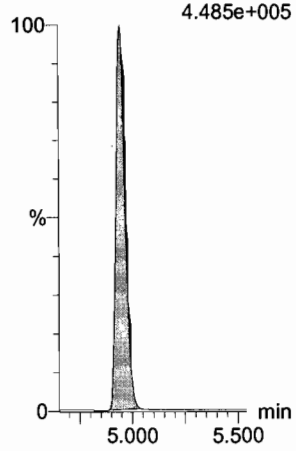
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
9.021e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
1.012e+006



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.485e+005



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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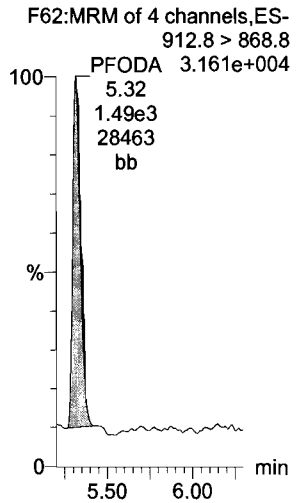
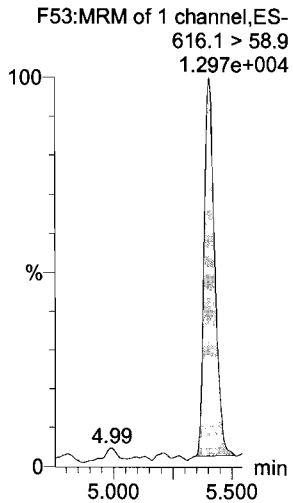
Name: 170822M1_2, Date: 22-Aug-2017, Time: 11:02:26, ID: ST170822M1-1 PFC CS-2 17H2202, Description: PFC CS-2 17H2202

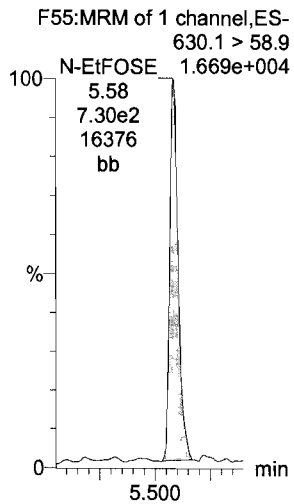
PFODA



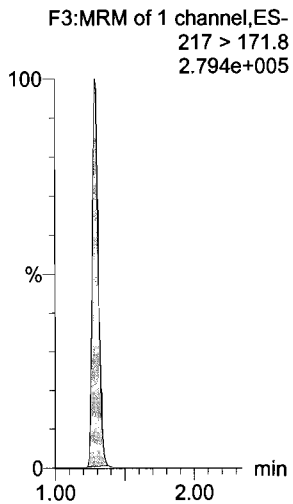
N-MeFOSE



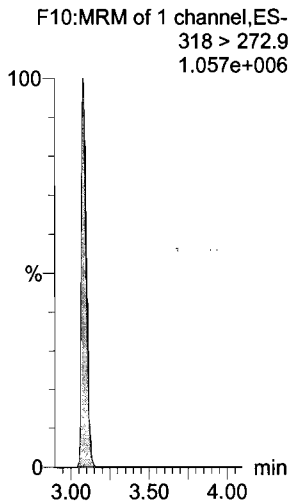
N-EtFOSE



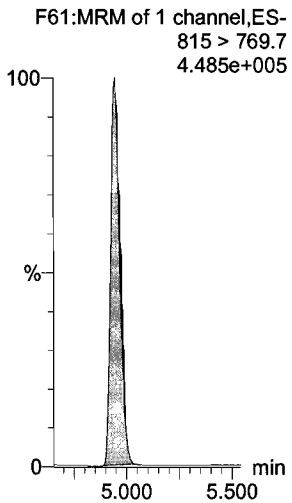
13C4-PFBA



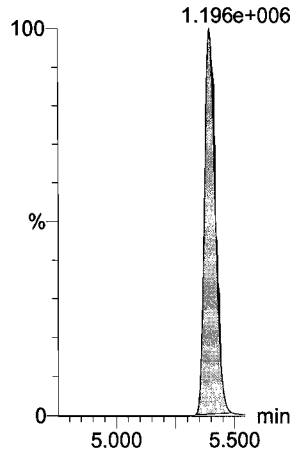
13C5-PFHxA



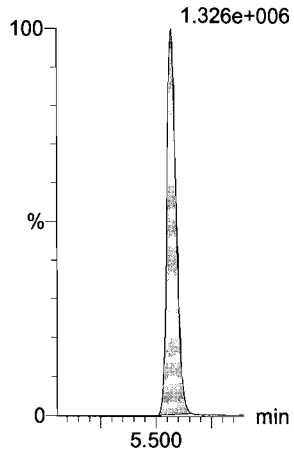
13C2-PFHxDA



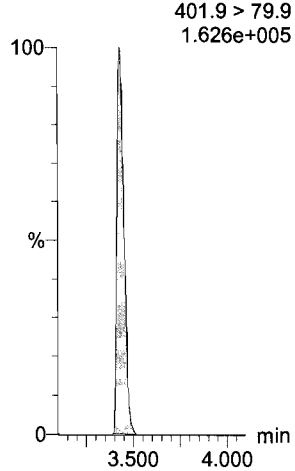
d7-N-MeFOSE



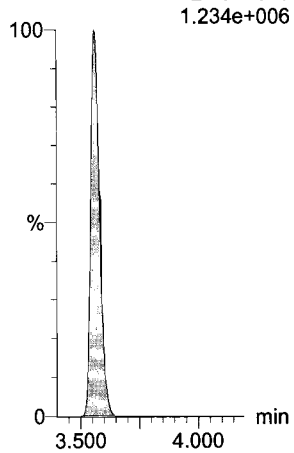
d9-N-EtFOSE



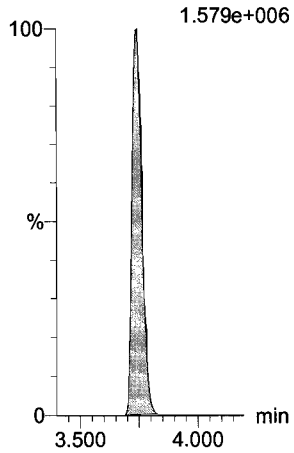
13C3-PFHxS



13C8-PFOA



13C9-PFNA

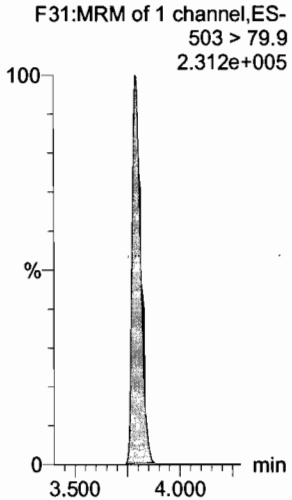


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

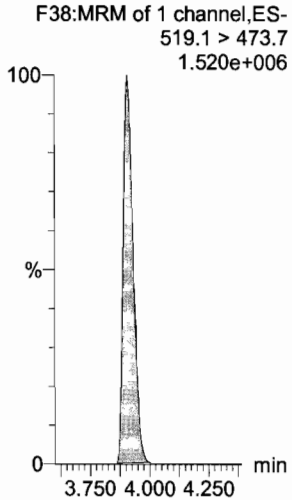
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_2, Date: 22-Aug-2017, Time: 11:02:26, ID: ST170822M1-1 PFC CS-2 17H2202, Description: PFC CS-2 17H2202

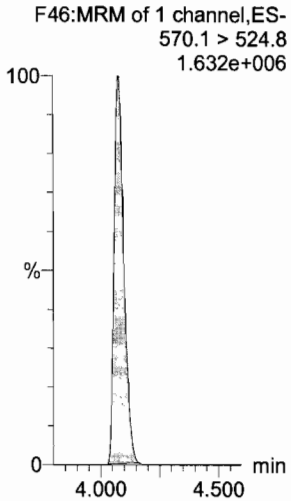
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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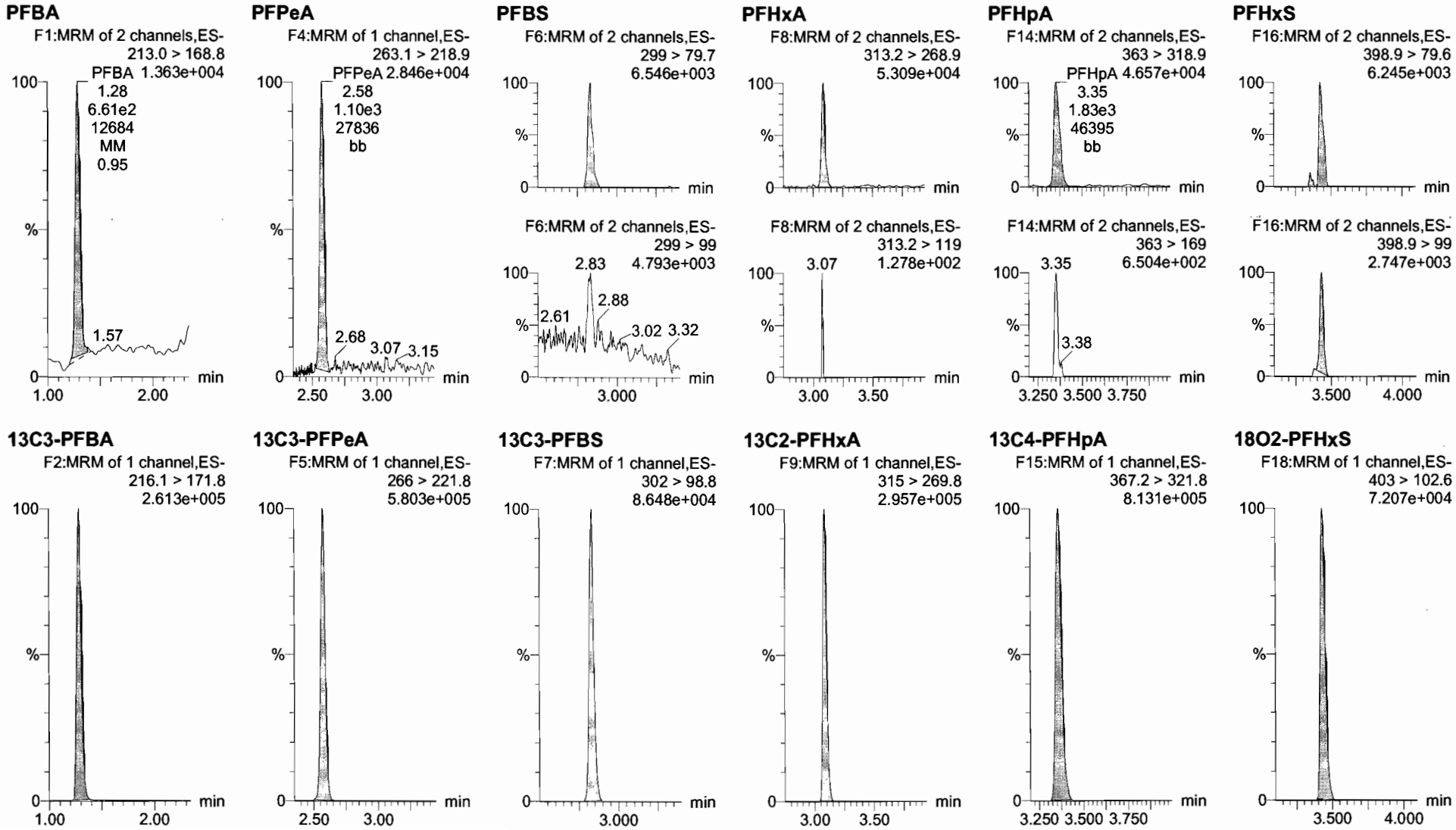
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_3, Date: 22-Aug-2017, Time: 11:13:04, ID: ST170822M1-2 PFC CS-1 17H2203, Description: PFC CS-1 17H2203



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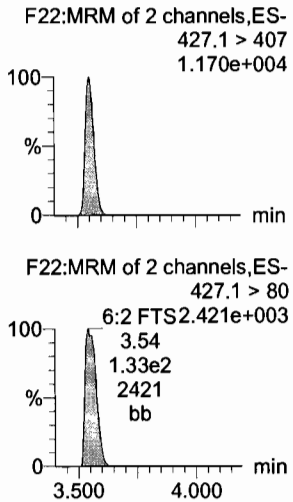
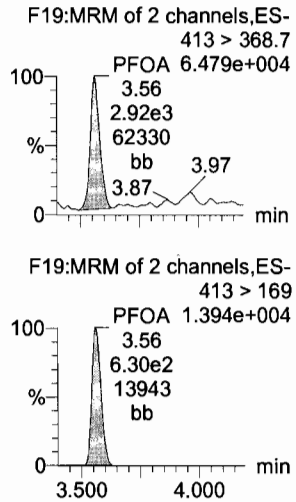
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_3, Date: 22-Aug-2017, Time: 11:13:04, ID: ST170822M1-2 PFC CS-1 17H2203, Description: PFC CS-1 17H2203

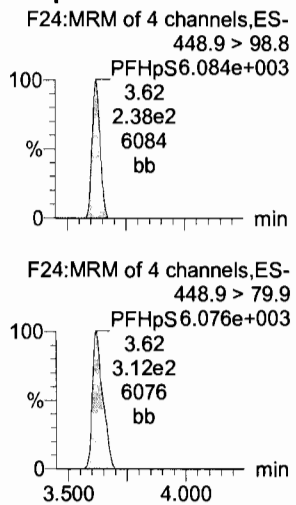
6:2 FTS



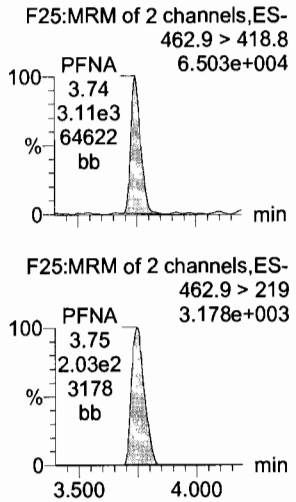
PFOA



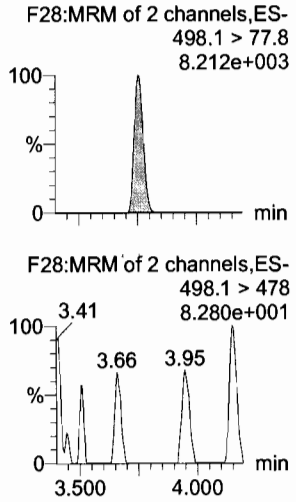
PFHpS



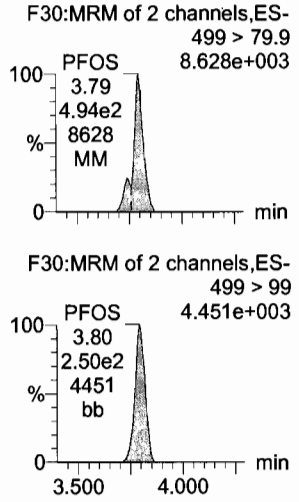
PFNA



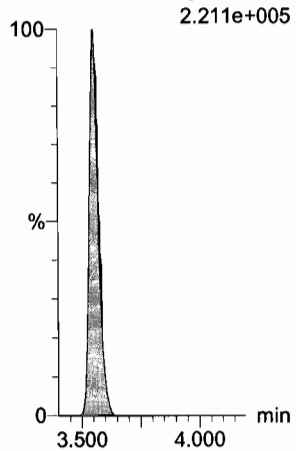
PFOSA



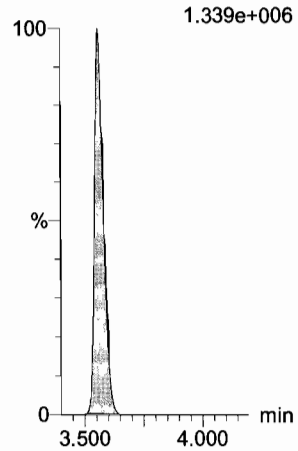
PFOS



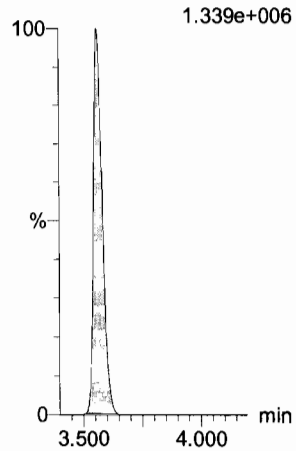
13C2-6:2 FTS



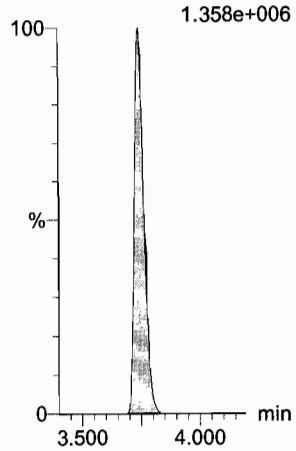
13C2-PFOA



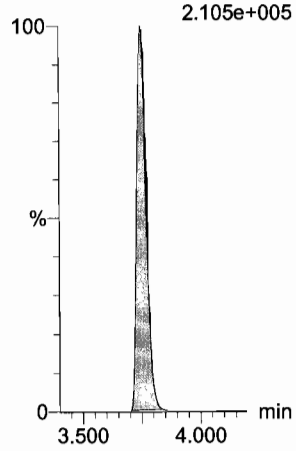
13C2-PFOA



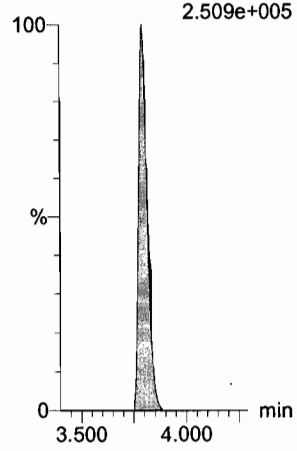
13C5-PFNA



13C8-PFOSA



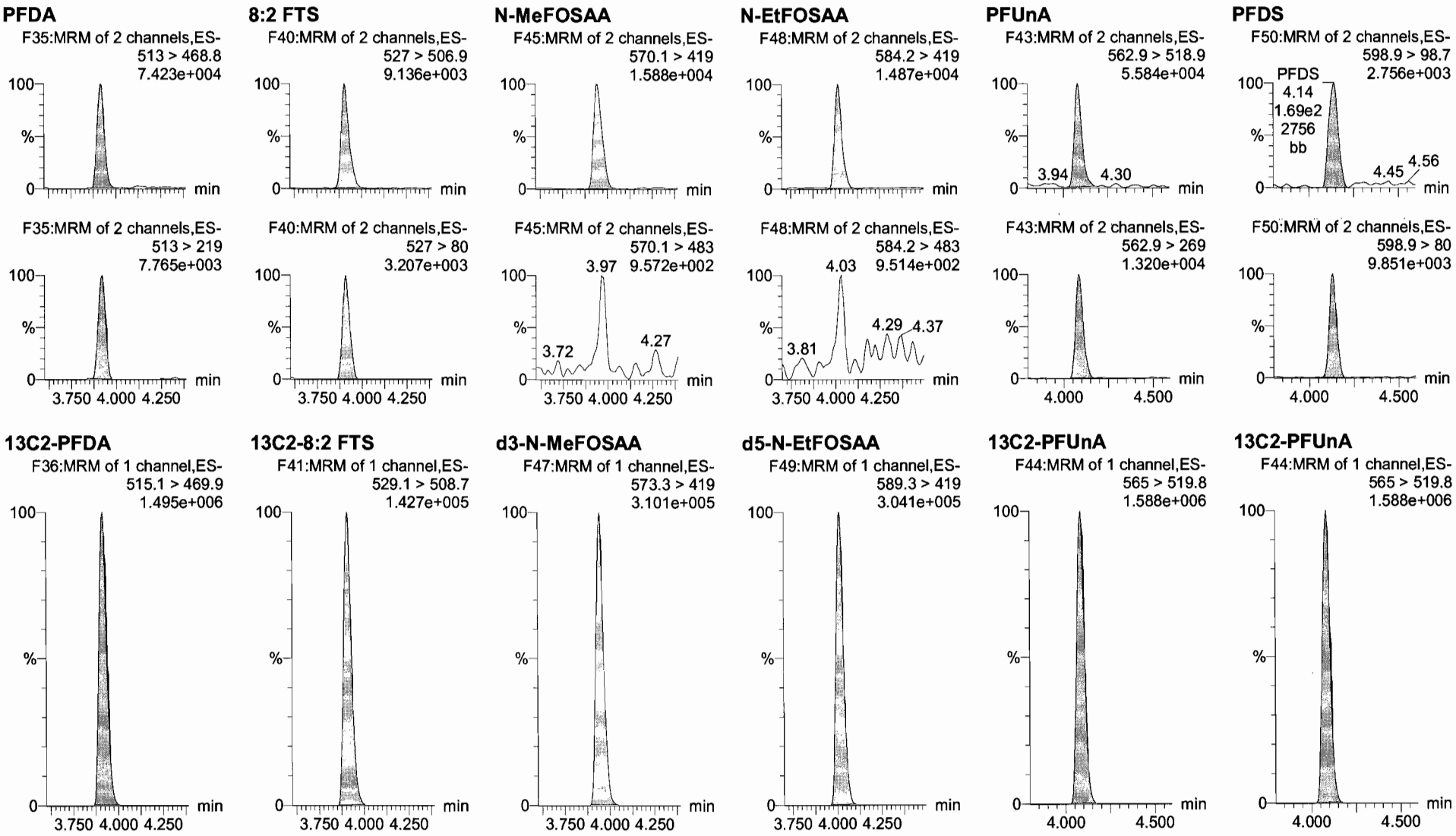
13C8-PFOS



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_3, Date: 22-Aug-2017, Time: 11:13:04, ID: ST170822M1-2 PFC CS-1 17H2203, Description: PFC CS-1 17H2203



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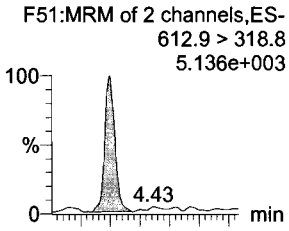
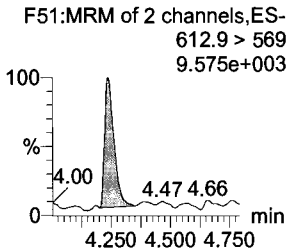
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_3, Date: 22-Aug-2017, Time: 11:13:04, ID: ST170822M1-2 PFC CS-1 17H2203, Description: PFC CS-1 17H2203

PFDoA





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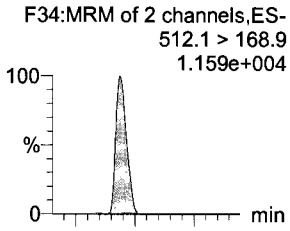

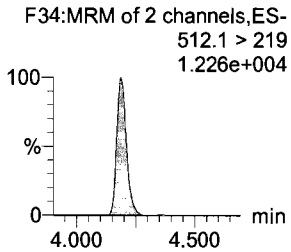

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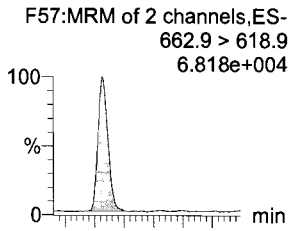

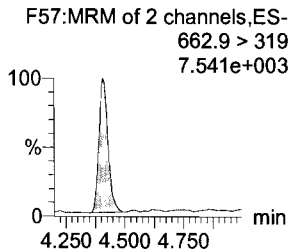

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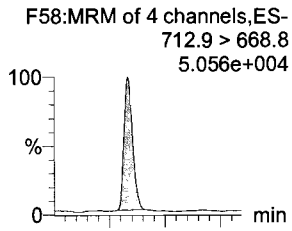

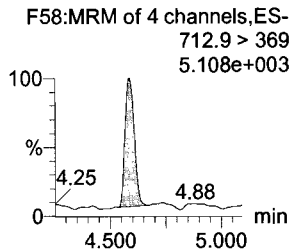

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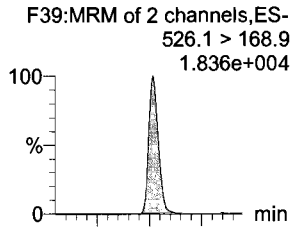

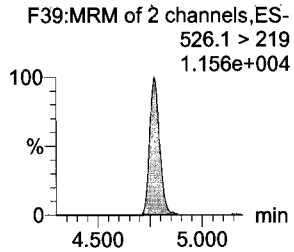

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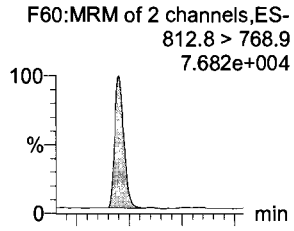

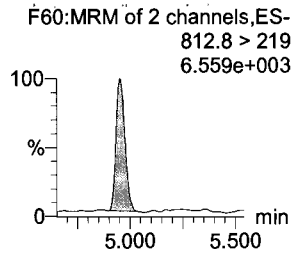

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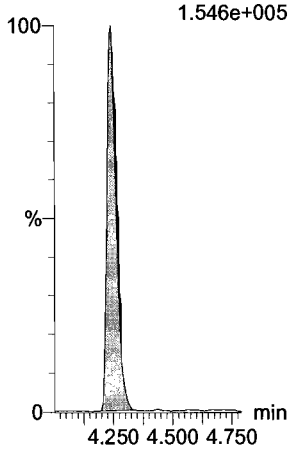
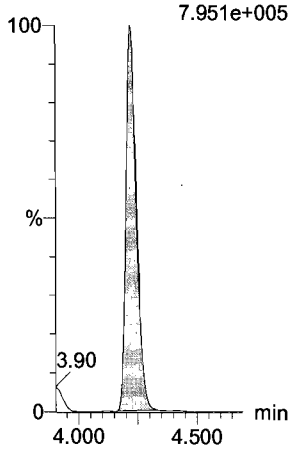


d3-N-MeFOSA



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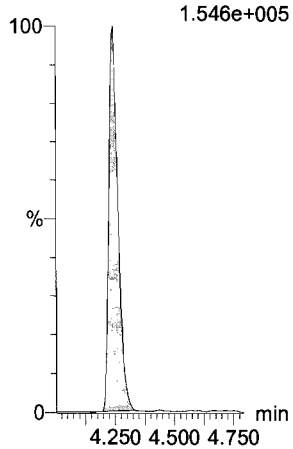

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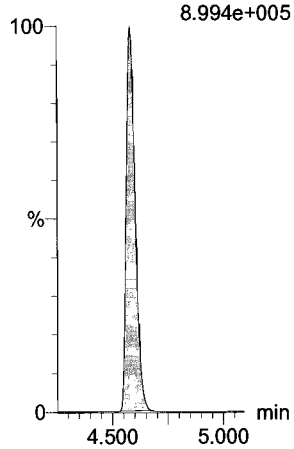

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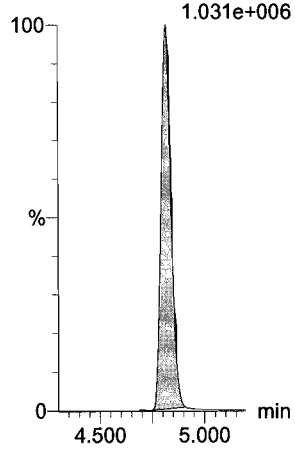
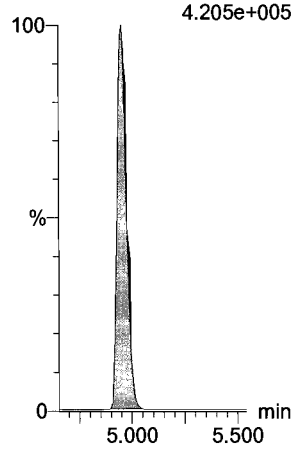


13C2-PFHxDA



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Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_3, Date: 22-Aug-2017, Time: 11:13:04, ID: ST170822M1-2 PFC CS-1 17H2203, Description: PFC CS-1 17H2203

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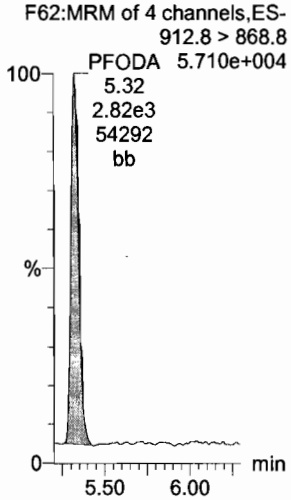

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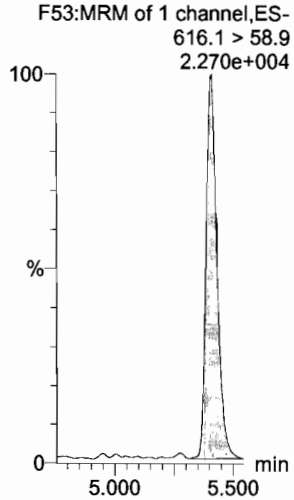

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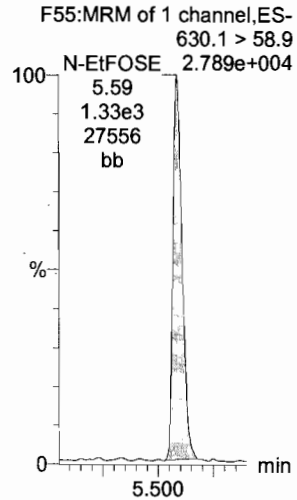

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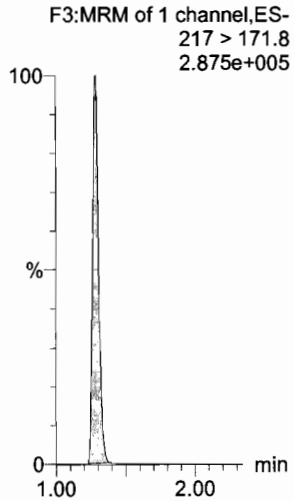
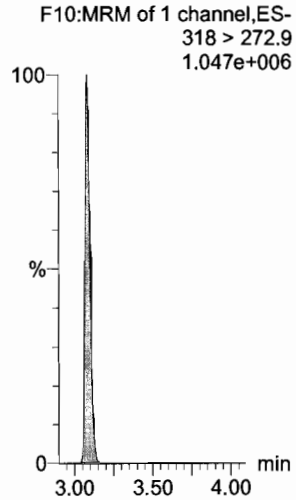


13C5-PFHxA



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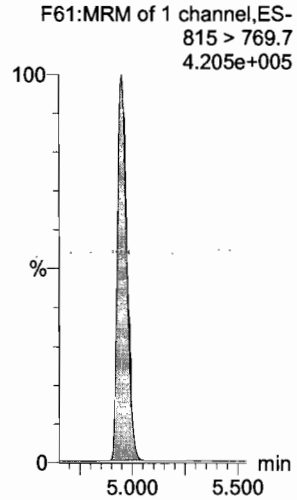

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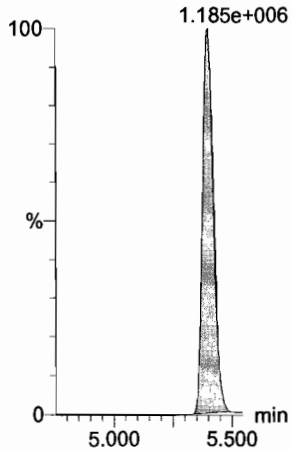

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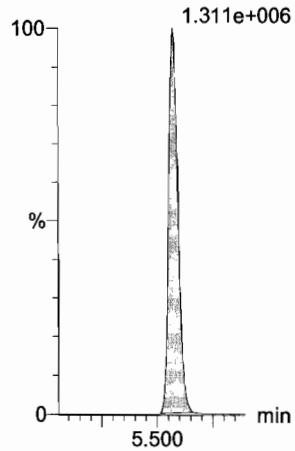

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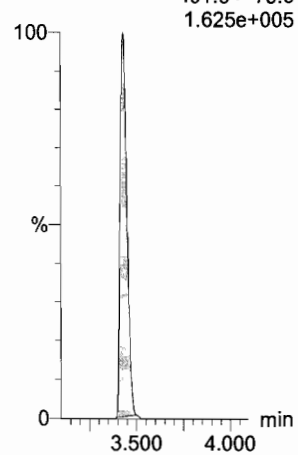

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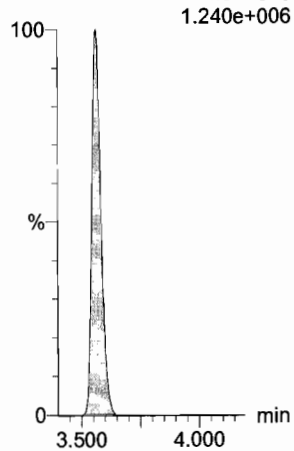

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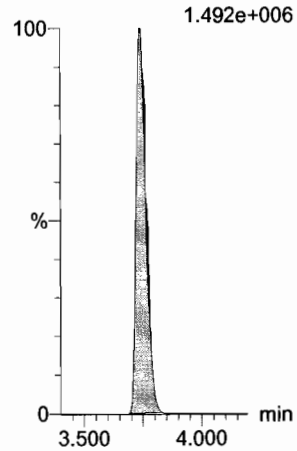

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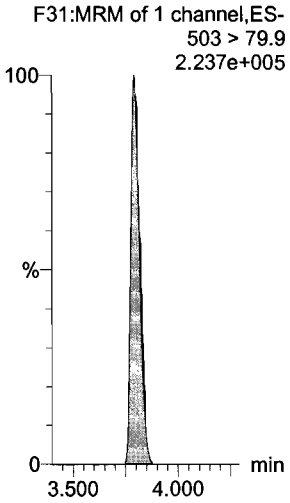
Name: 170822M1_3, Date: 22-Aug-2017, Time: 11:13:04, ID: ST170822M1-2 PFC CS-1 17H2203, Description: PFC CS-1 17H2203

13C4-PFOS



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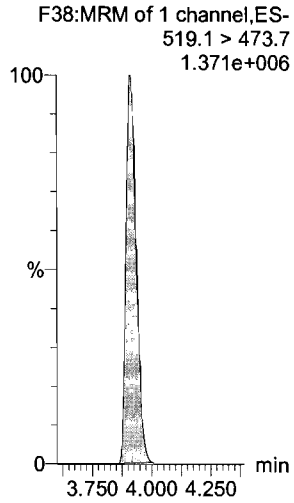

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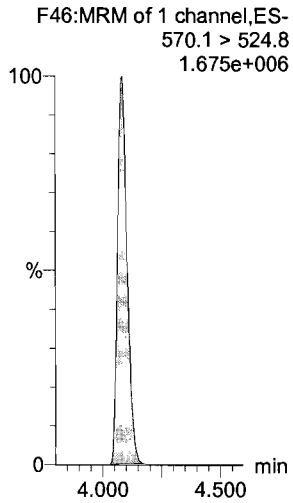

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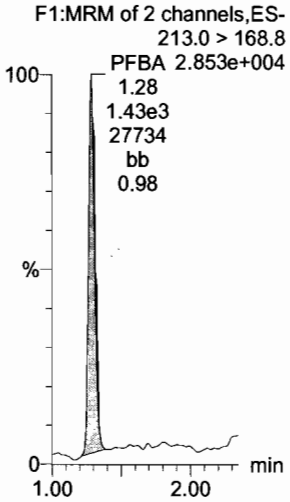
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_4, Date: 22-Aug-2017, Time: 11:23:42, ID: ST170822M1-3 PFC CS0 17H2204, Description: PFC CS0 17H2204

PFBA



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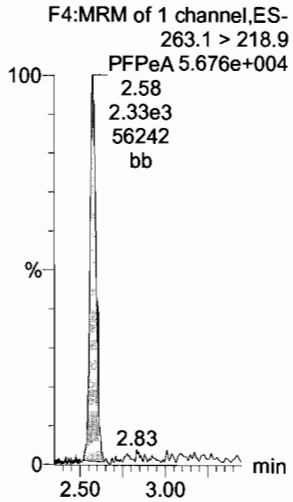

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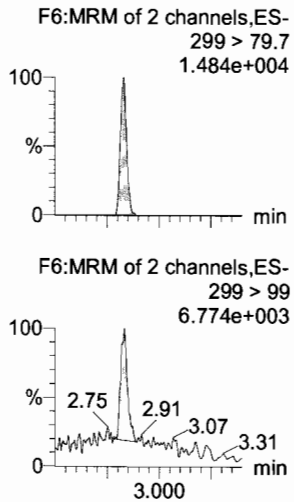

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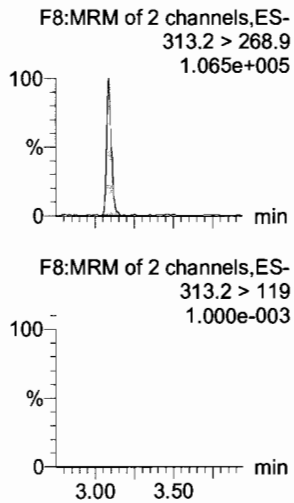

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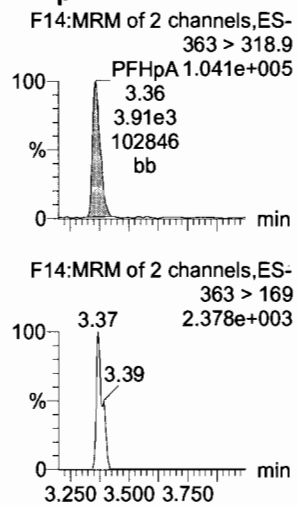

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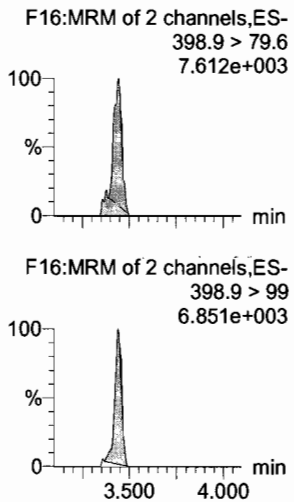

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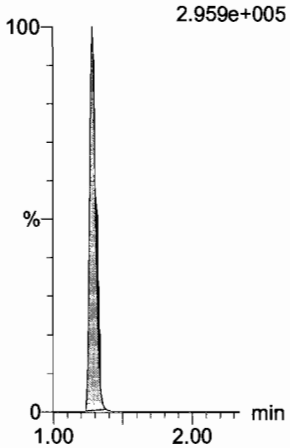

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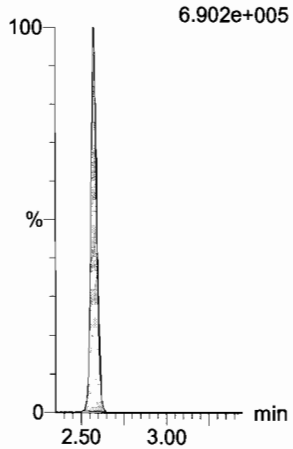

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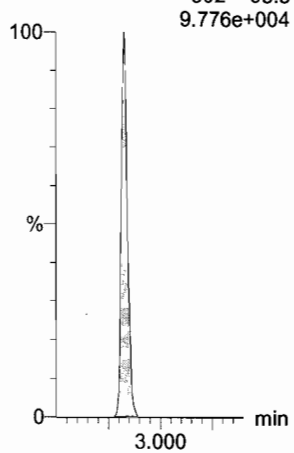
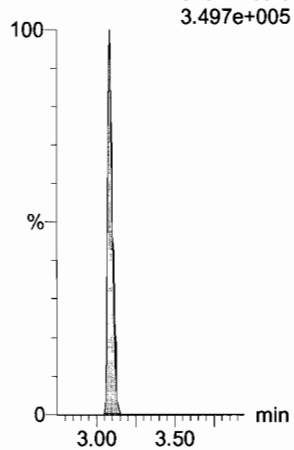
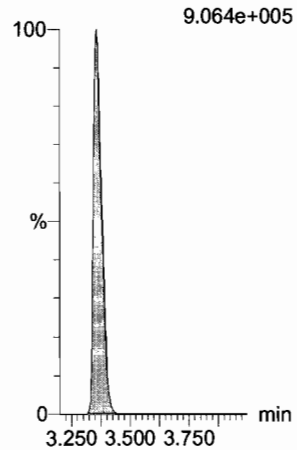


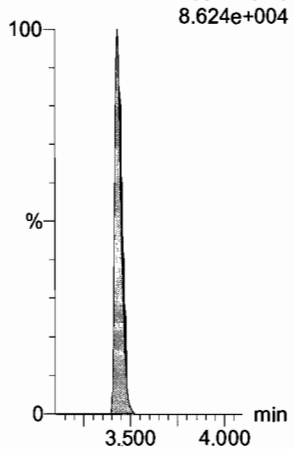
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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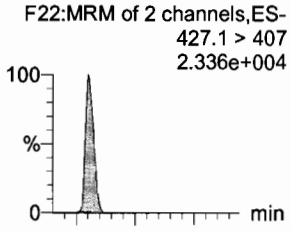
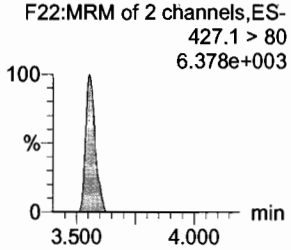
Name: 170822M1_4, Date: 22-Aug-2017, Time: 11:23:42, ID: ST170822M1-3 PFC CS0 17H2204, Description: PFC CS0 17H2204

6:2 FTS





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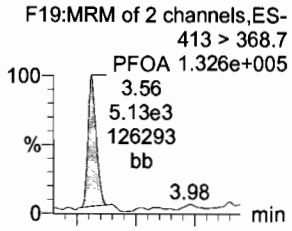

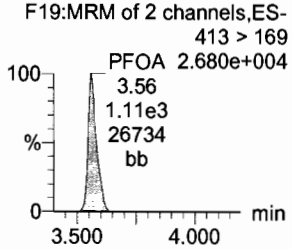

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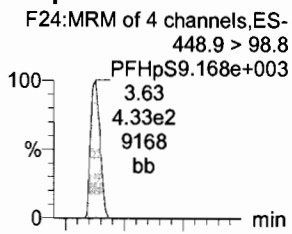

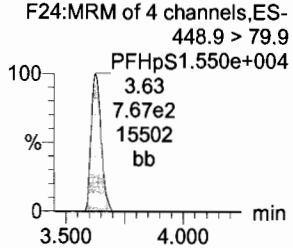

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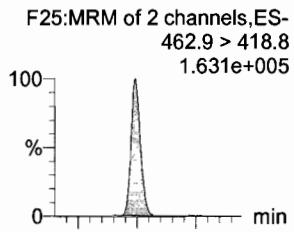

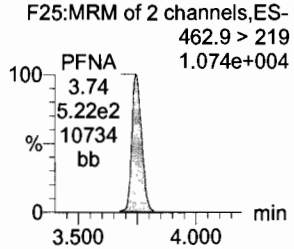

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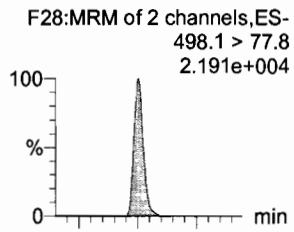

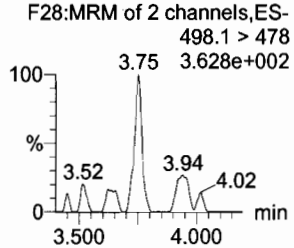

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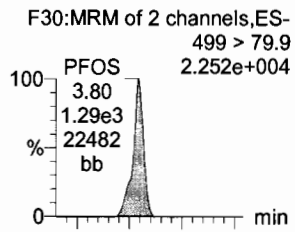
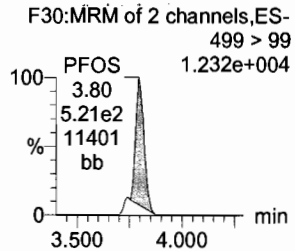
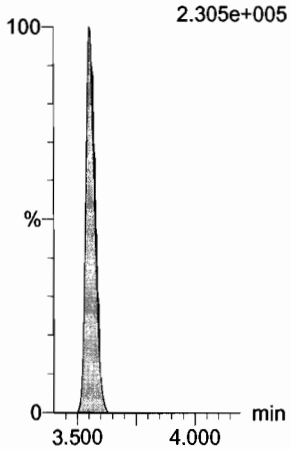
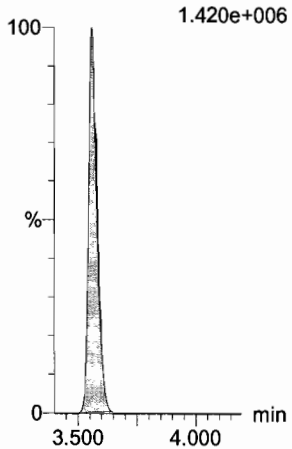




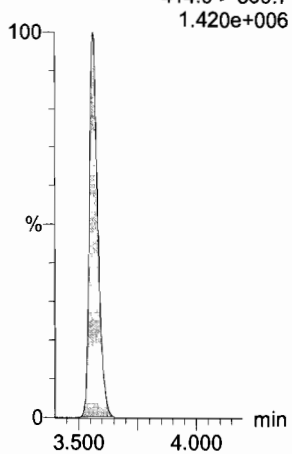
13C2-6:2 FTS



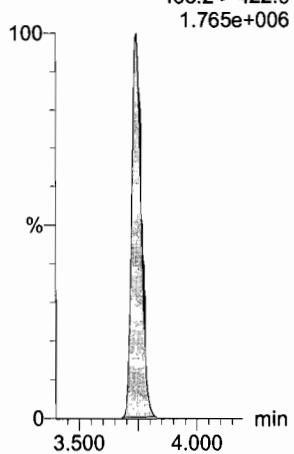
13C2-PFOA



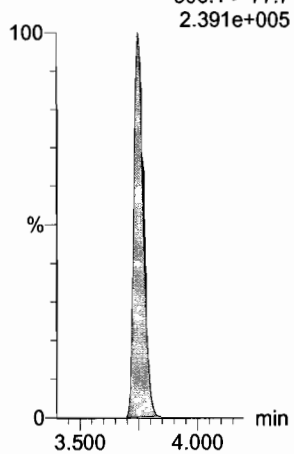
13C2-PFOA



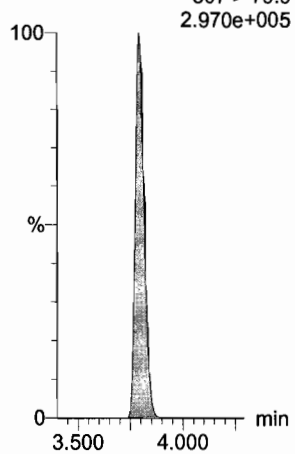
13C5-PFNA



13C8-PFOSA



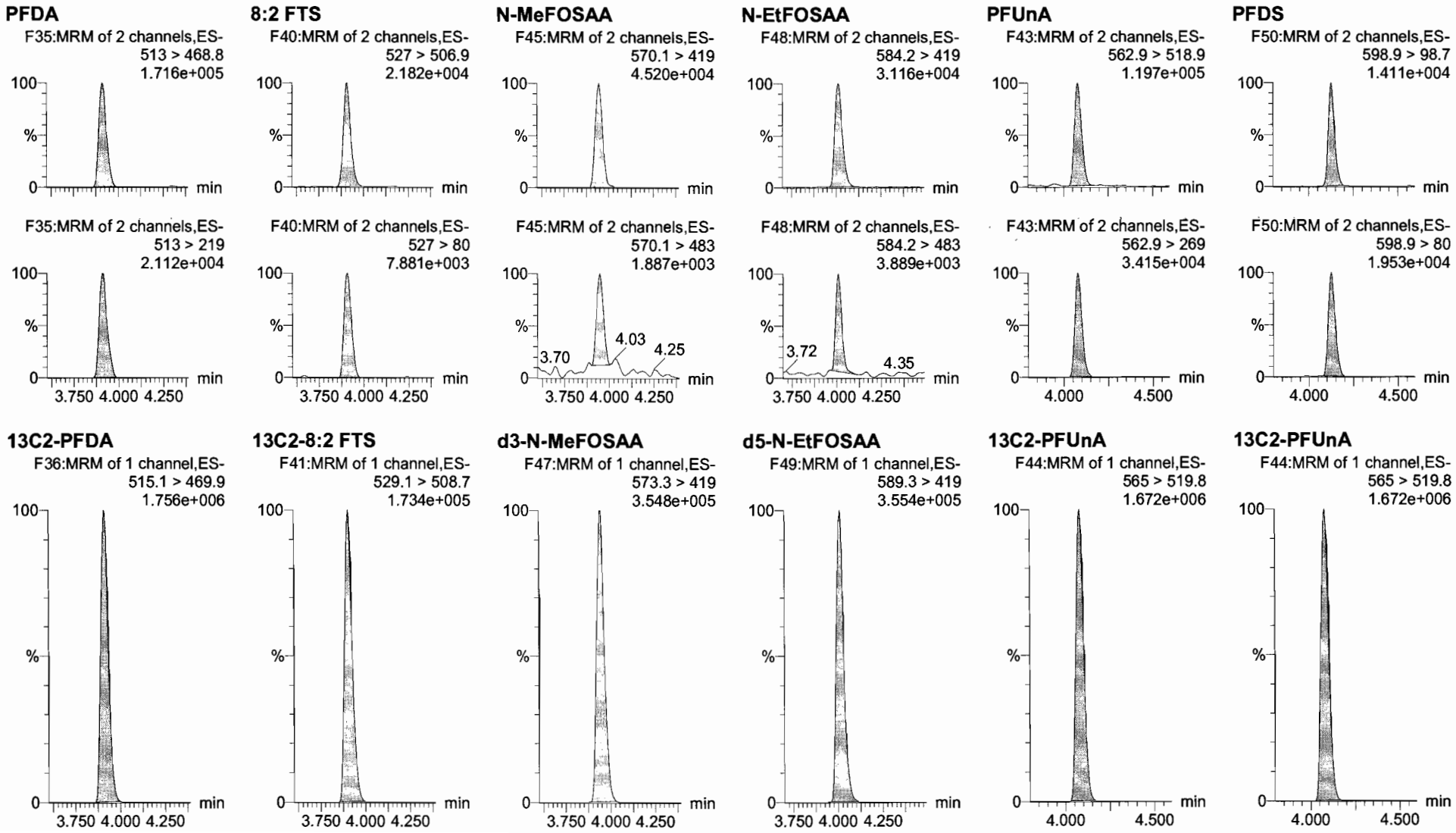
13C8-PFOS



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_4, Date: 22-Aug-2017, Time: 11:23:42, ID: ST170822M1-3 PFC CS0 17H2204, Description: PFC CS0 17H2204

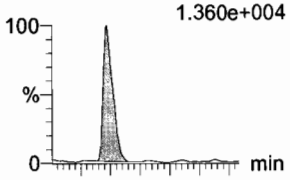


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

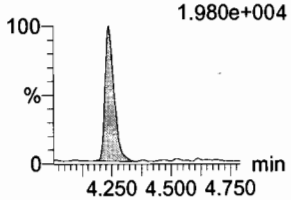
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_4, Date: 22-Aug-2017, Time: 11:23:42, ID: ST170822M1-3 PFC CS0 17H2204, Description: PFC CS0 17H2204

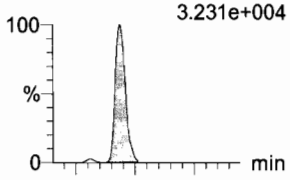
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
1.360e+004



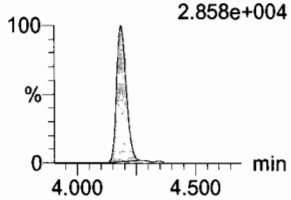
F51:MRM of 2 channels,ES-
612.9 > 569
1.980e+004



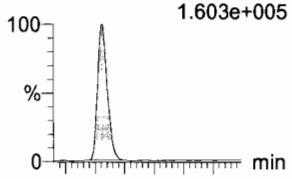
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
3.231e+004



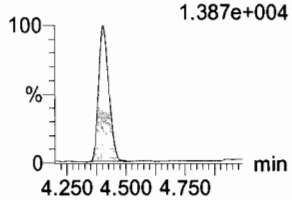
F34:MRM of 2 channels,ES-
512.1 > 219
2.858e+004



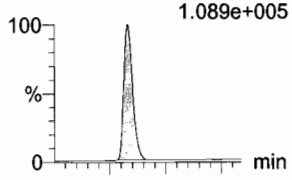
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
1.603e+005



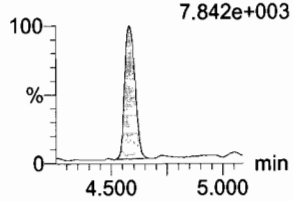
F57:MRM of 2 channels,ES-
662.9 > 319
1.387e+004



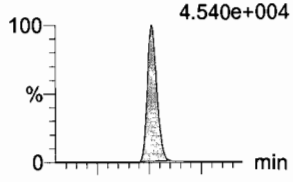
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
1.089e+005



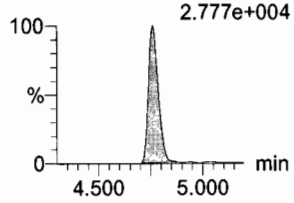
F58:MRM of 4 channels,ES-
712.9 > 369
7.842e+003



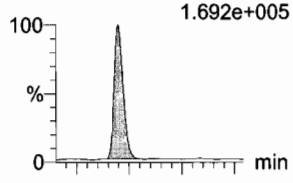
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
4.540e+004



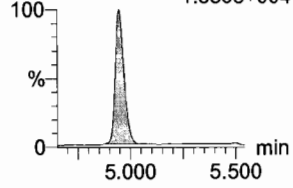
F39:MRM of 2 channels,ES-
526.1 > 219
2.777e+004



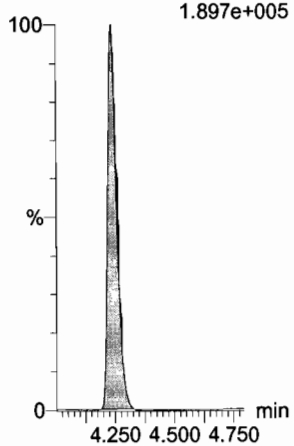
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
1.692e+005



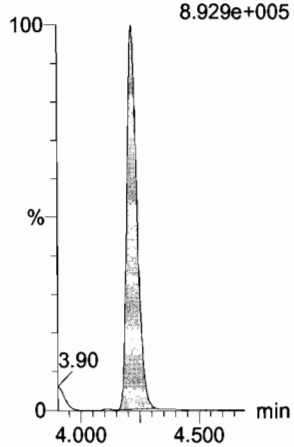
F60:MRM of 2 channels,ES-
812.8 > 219
1.586e+004



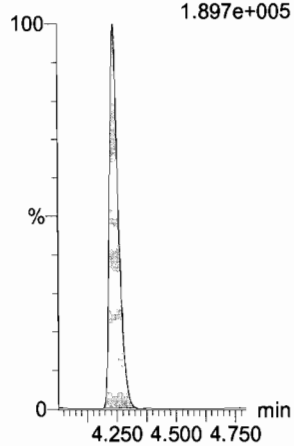
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.897e+005



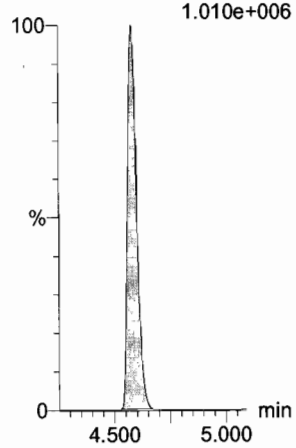
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
8.929e+005



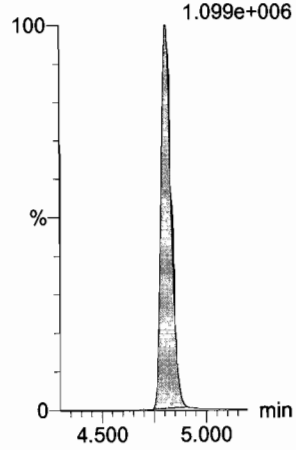
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.897e+005



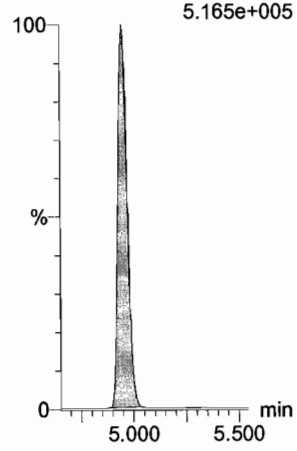
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
1.010e+006



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
1.099e+006



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
5.165e+005

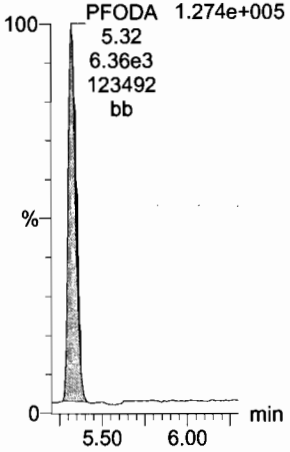


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

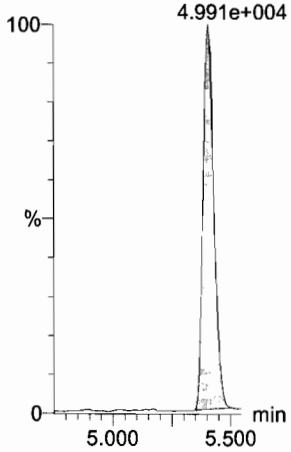
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_4, Date: 22-Aug-2017, Time: 11:23:42, ID: ST170822M1-3 PFC CS0 17H2204, Description: PFC CS0 17H2204

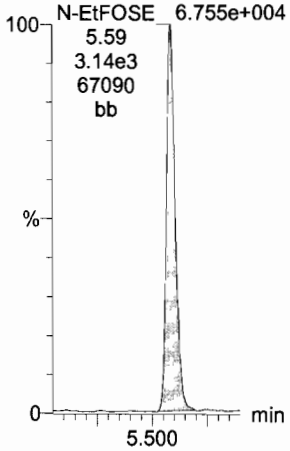
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
PFODA 1.274e+005
5.32
6.36e3
123492
bb



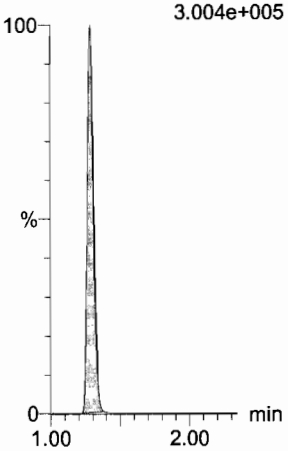
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
4.991e+004



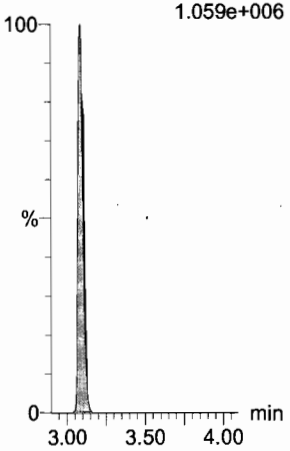
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
N-EtFOSE 6.755e+004
5.59
3.14e3
67090
bb



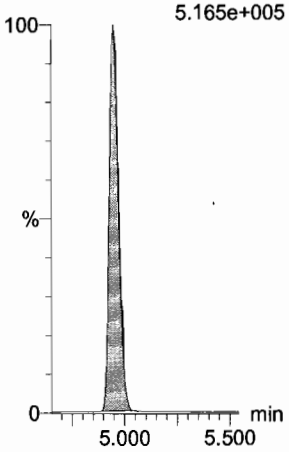
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
3.004e+005



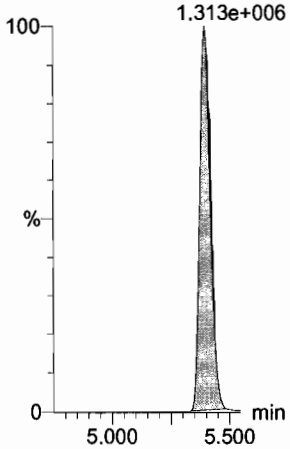
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.059e+006



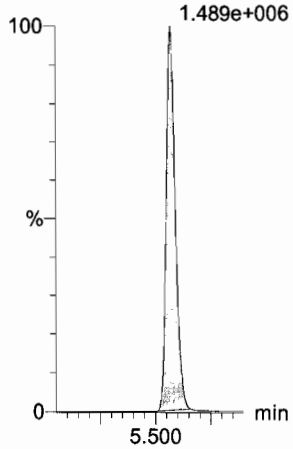
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
5.165e+005



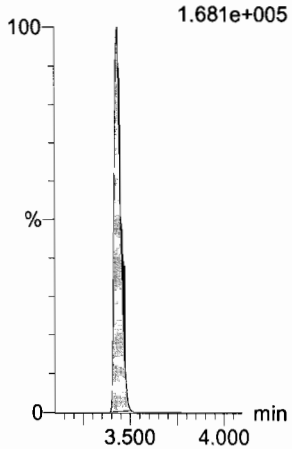
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
1.313e+006



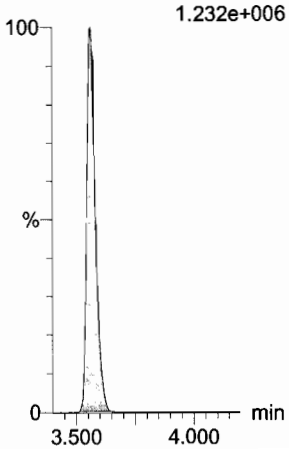
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
1.489e+006



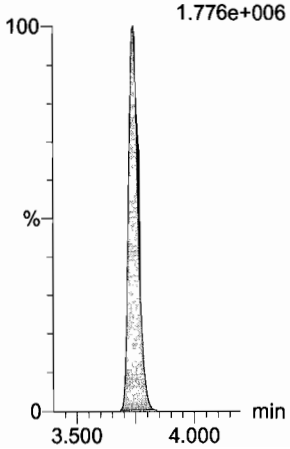
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.681e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.232e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.776e+006



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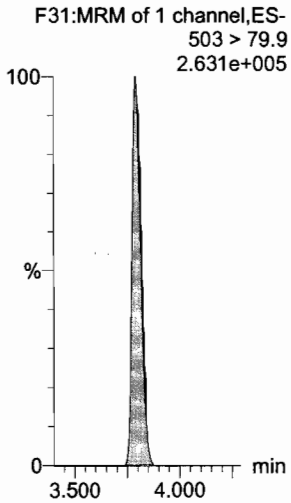
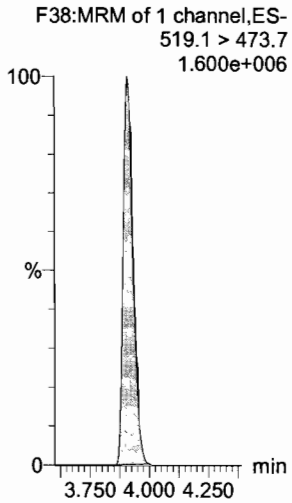
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_4, Date: 22-Aug-2017, Time: 11:23:42, ID: ST170822M1-3 PFC CS0 17H2204, Description: PFC CS0 17H2204

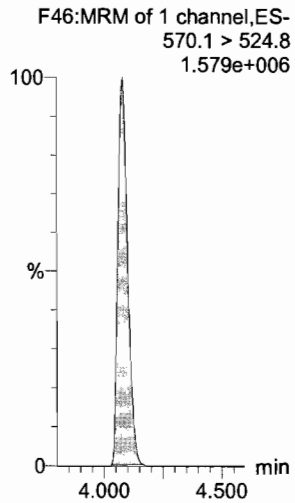
13C4-PFOS



13C6-PFDA



13C7-PFUnA

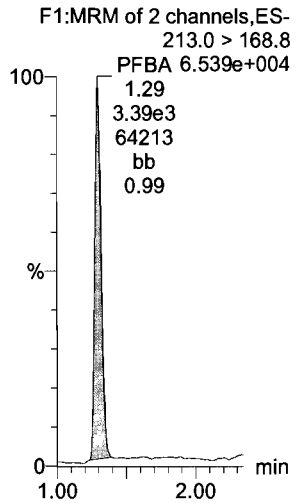


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

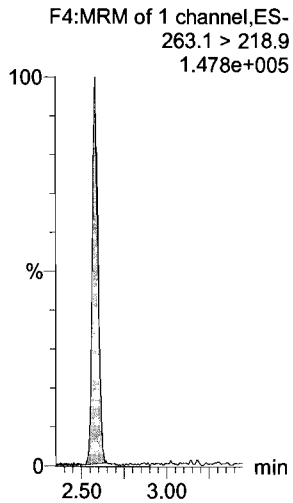
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_5, Date: 22-Aug-2017, Time: 11:34:29, ID: ST170822M1-4 PFC CS1 17H2205, Description: PFC CS1 17H2205

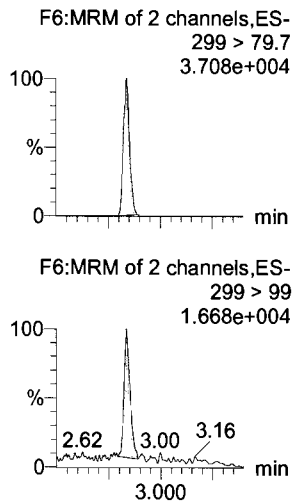
PFBA



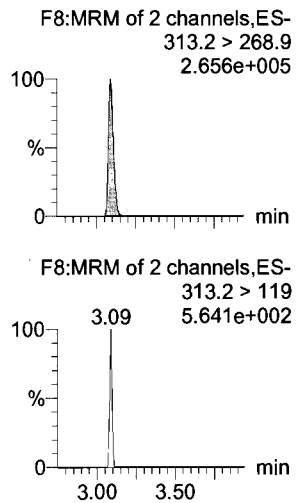
PFPeA



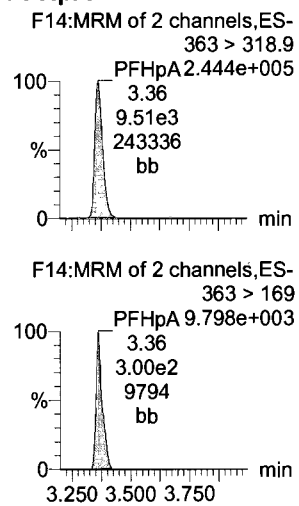
PFBS



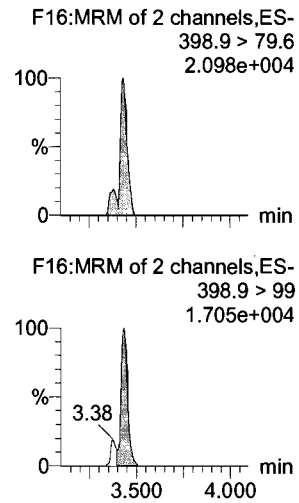
PFHxA



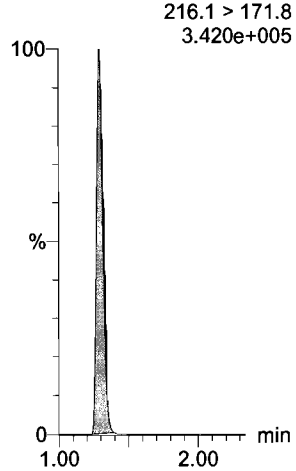
PFHpA



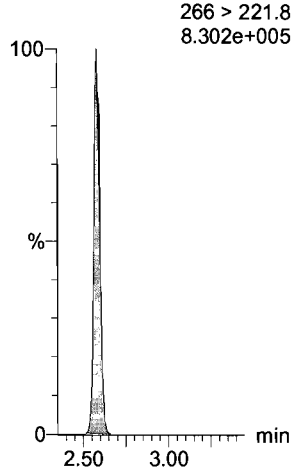
PFHxS



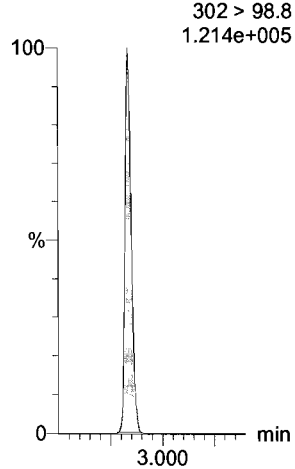
13C3-PFBA



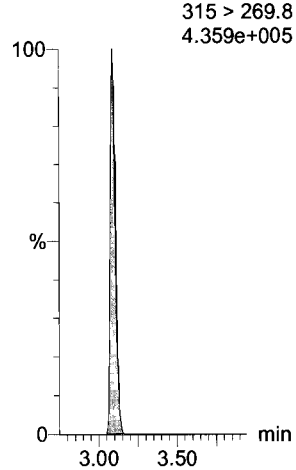
13C3-PFPeA



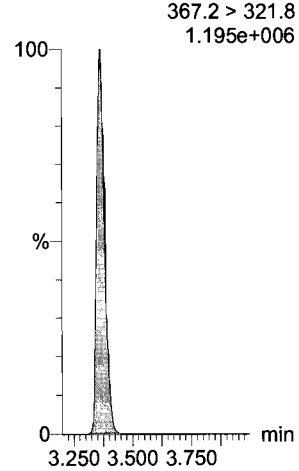
13C3-PFBS



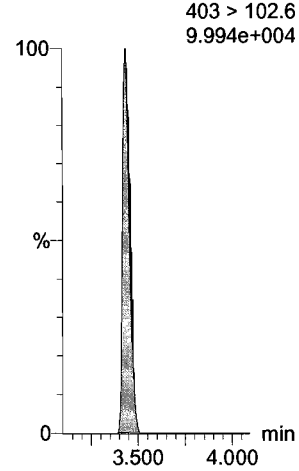
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

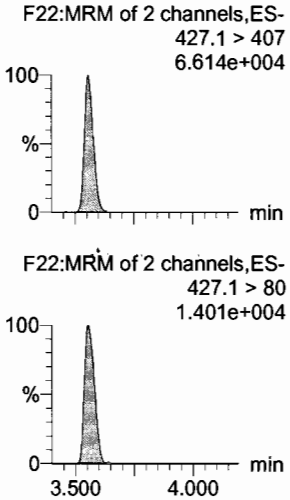


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

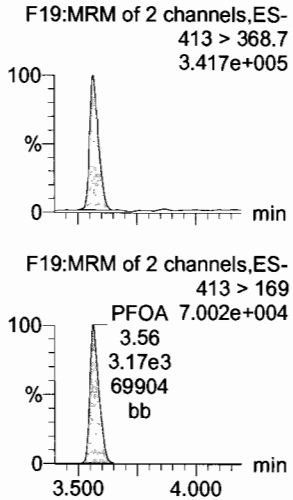
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_5, Date: 22-Aug-2017, Time: 11:34:29, ID: ST170822M1-4 PFC CS1 17H2205, Description: PFC CS1 17H2205

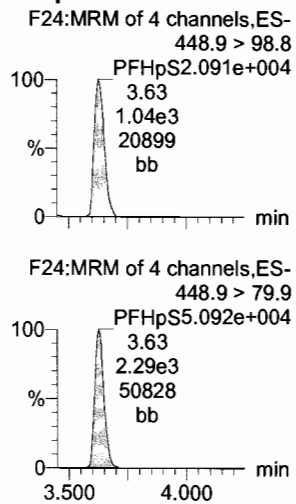
6:2 FTS



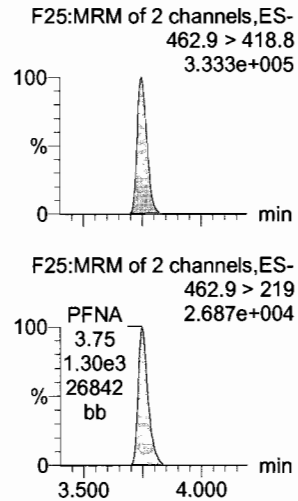
PFOA



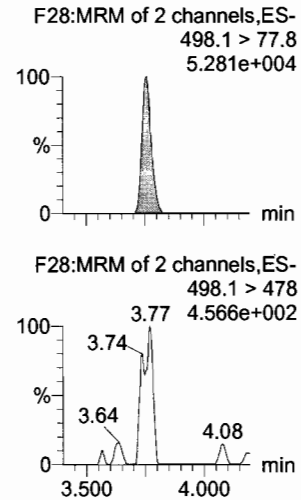
PFHpS



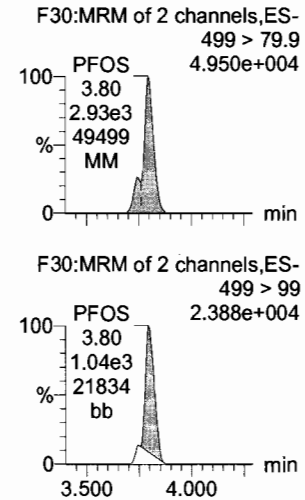
PFNA



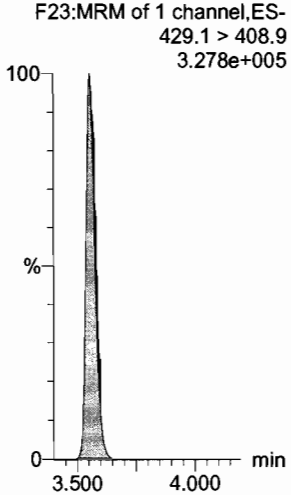
PFOSA



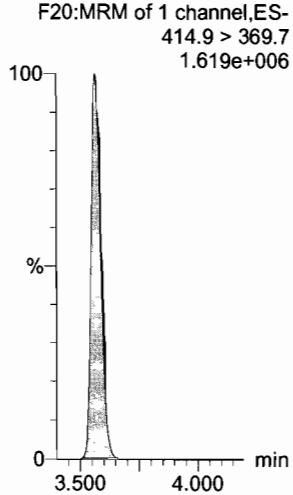
PFOS



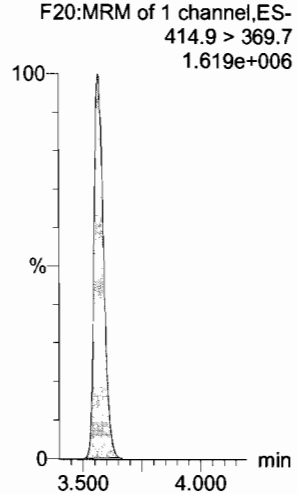
13C2-6:2 FTS



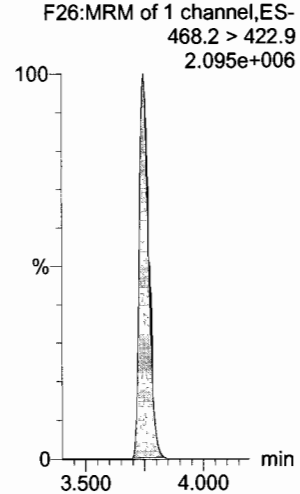
13C2-PFOA



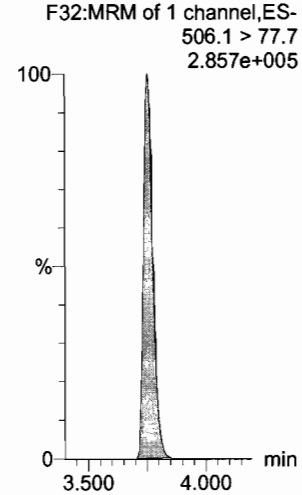
13C2-PFOA



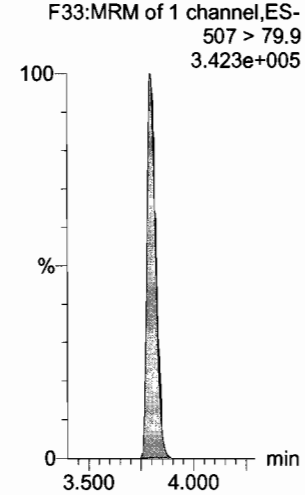
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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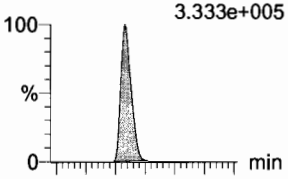
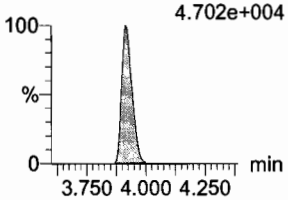
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_5, Date: 22-Aug-2017, Time: 11:34:29, ID: ST170822M1-4 PFC CS1 17H2205, Description: PFC CS1 17H2205

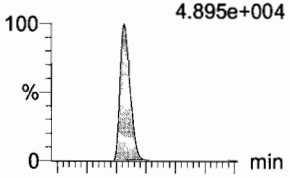
PFDA
F35:MRM of 2 channels,ES-
513 > 468.8
3.333e+005



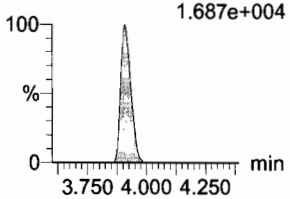
F35:MRM of 2 channels,ES-
513 > 219
4.702e+004



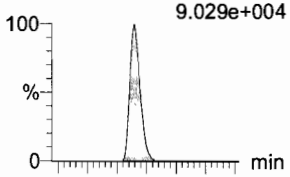
8:2 FTS
F40:MRM of 2 channels,ES-
527 > 506.9
4.895e+004



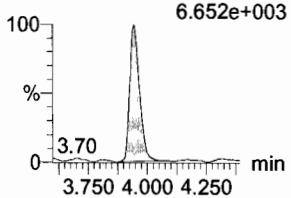
F40:MRM of 2 channels,ES-
527 > 80
1.687e+004



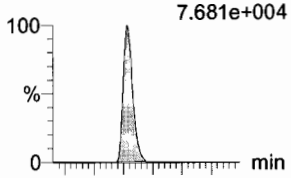
N-MeFOSAA
F45:MRM of 2 channels,ES-
570.1 > 419
9.029e+004



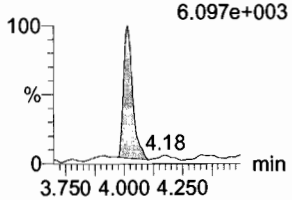
F45:MRM of 2 channels,ES-
570.1 > 483
6.652e+003



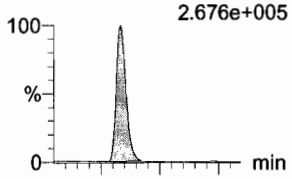
N-EtFOSAA
F48:MRM of 2 channels,ES-
584.2 > 419
7.681e+004



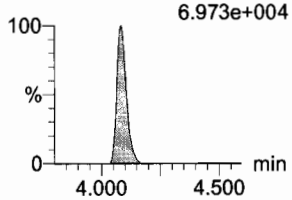
F48:MRM of 2 channels,ES-
584.2 > 483
6.097e+003



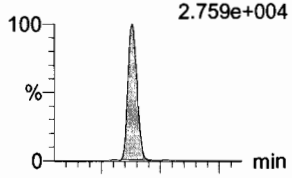
PFUnA
F43:MRM of 2 channels,ES-
562.9 > 518.9
2.676e+005



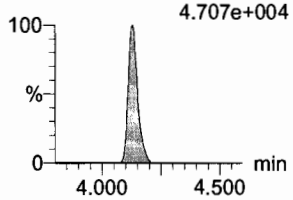
F43:MRM of 2 channels,ES-
562.9 > 269
6.973e+004



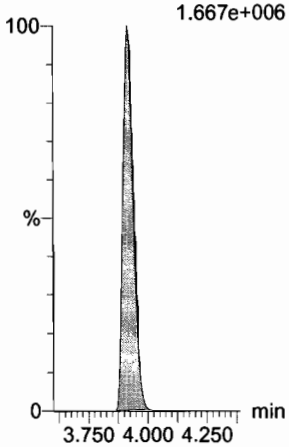
PFDS
F50:MRM of 2 channels,ES-
598.9 > 98.7
2.759e+004



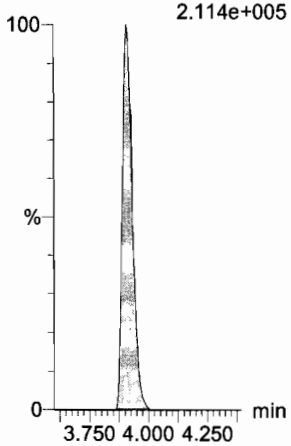
F50:MRM of 2 channels,ES-
598.9 > 80
4.707e+004



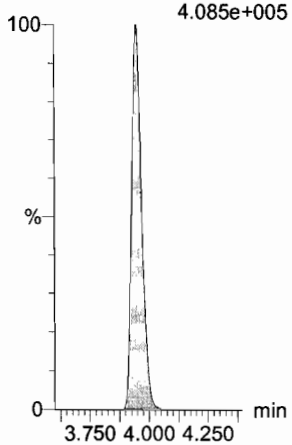
13C2-PFDA
F36:MRM of 1 channel,ES-
515.1 > 469.9
1.667e+006



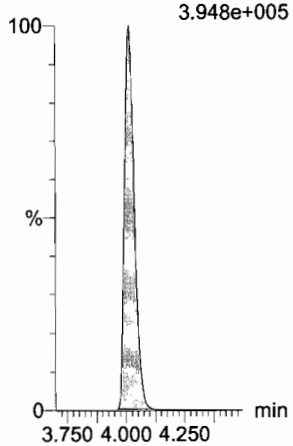
13C2-8:2 FTS
F41:MRM of 1 channel,ES-
529.1 > 508.7
2.114e+005



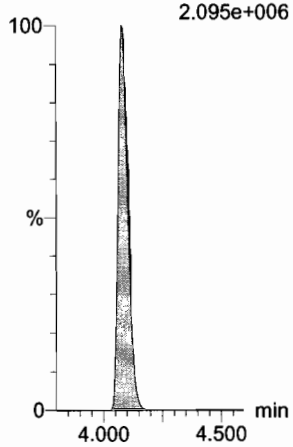
d3-N-MeFOSAA
F47:MRM of 1 channel,ES-
573.3 > 419
4.085e+005



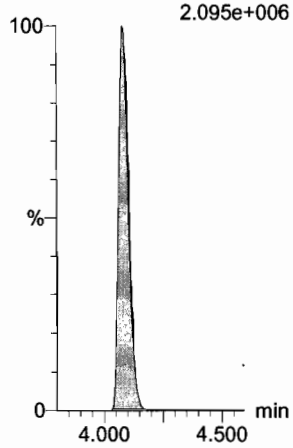
d5-N-EtFOSAA
F49:MRM of 1 channel,ES-
589.3 > 419
3.948e+005



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
2.095e+006



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
2.095e+006



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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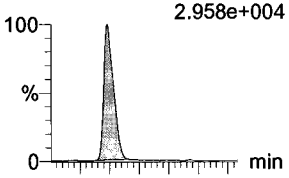
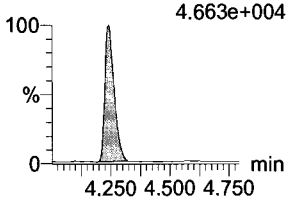
Name: 170822M1_5, Date: 22-Aug-2017, Time: 11:34:29, ID: ST170822M1-4 PFC CS1 17H2205, Description: PFC CS1 17H2205

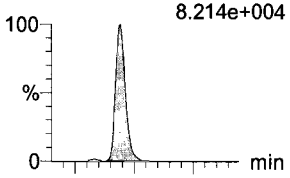
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
2.958e+004



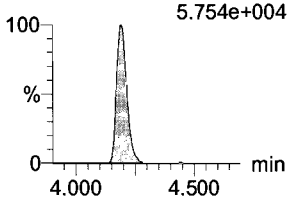
F51:MRM of 2 channels,ES-
612.9 > 569
4.663e+004



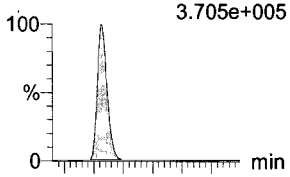
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
8.214e+004



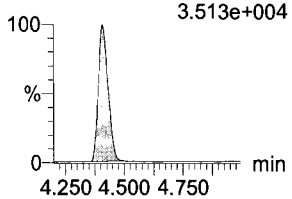
F34:MRM of 2 channels,ES-
512.1 > 219
5.754e+004



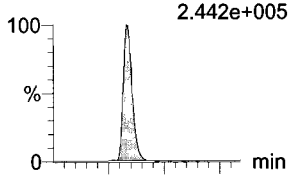
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
3.705e+005



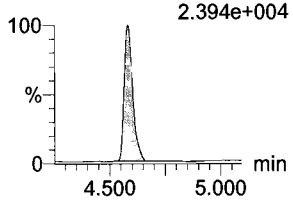
F57:MRM of 2 channels,ES-
662.9 > 319
3.513e+004



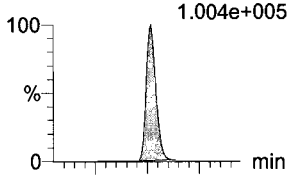
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
2.442e+005



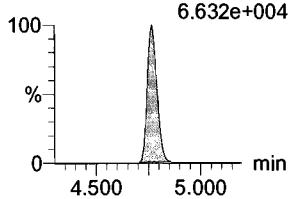
F58:MRM of 4 channels,ES-
712.9 > 369
2.394e+004



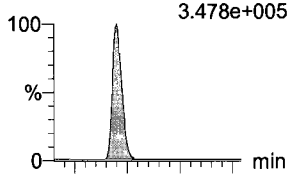
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
1.004e+005



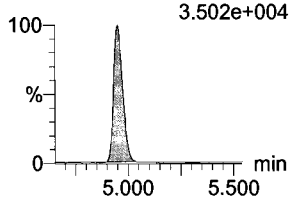
F39:MRM of 2 channels,ES-
526.1 > 219
6.632e+004



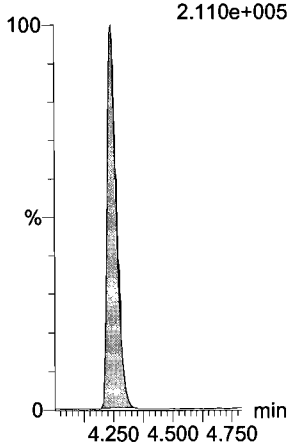
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
3.478e+005



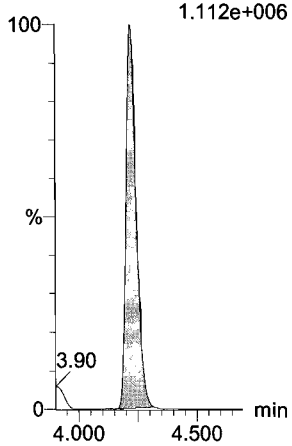
F60:MRM of 2 channels,ES-
812.8 > 219
3.502e+004



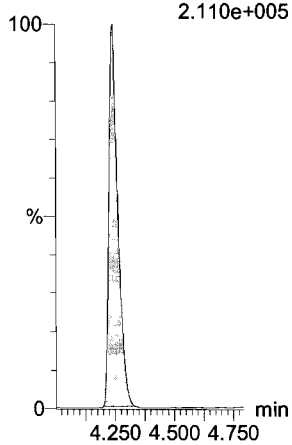
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
2.110e+005



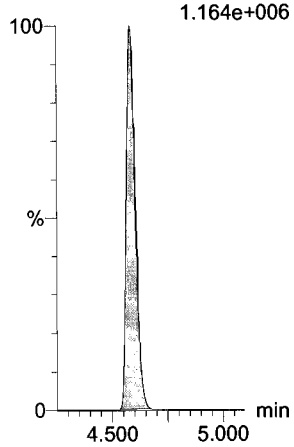
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
1.112e+006



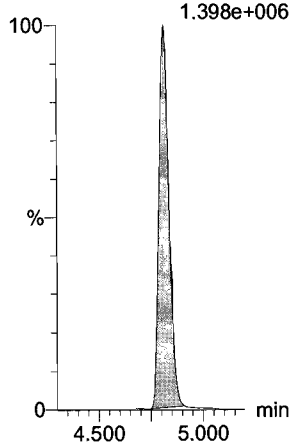
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
2.110e+005



13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
1.164e+006



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
1.398e+006



13C2-PFHxDA
F61:MRM of 1 channel,ES-
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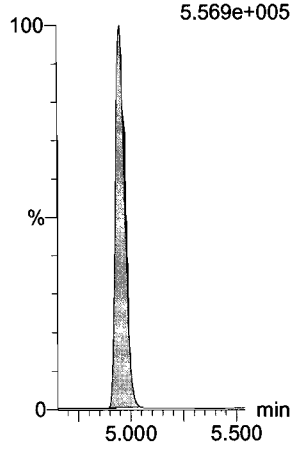
5.569e+005



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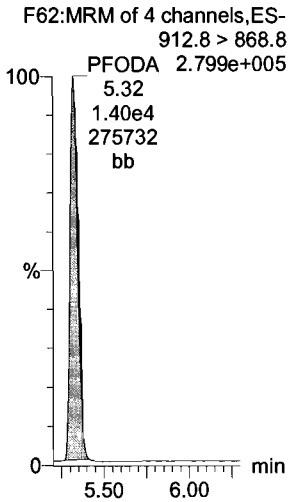
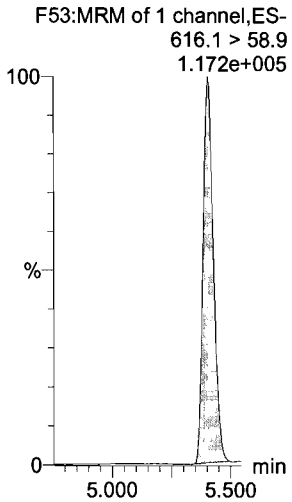
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_5, Date: 22-Aug-2017, Time: 11:34:29, ID: ST170822M1-4 PFC CS1 17H2205, Description: PFC CS1 17H2205

PFODA



N-MeFOSE



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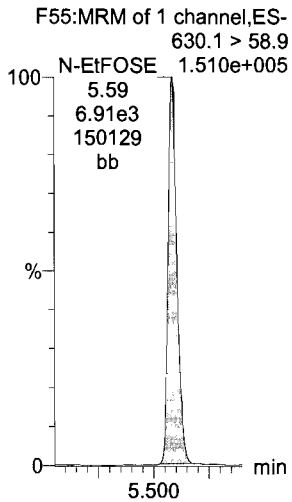
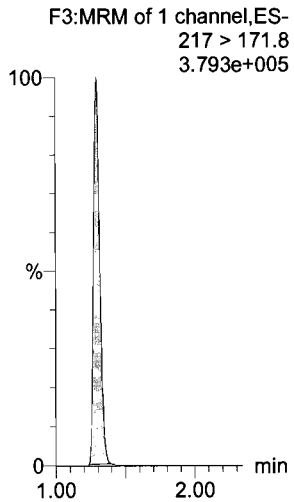
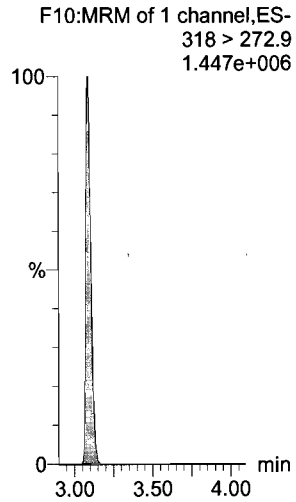


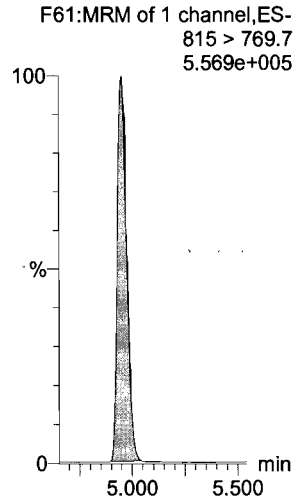
13C4-PFBA



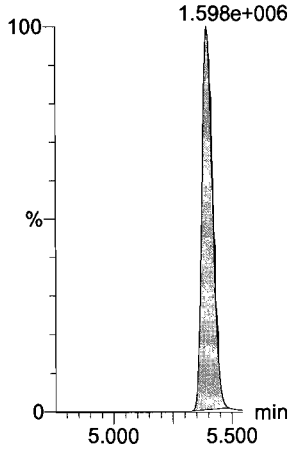
13C5-PFHxA



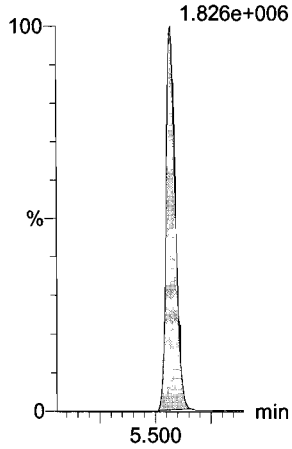
13C2-PFHxDA



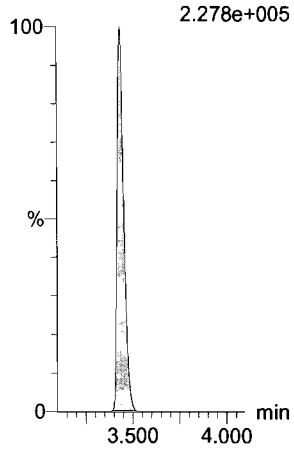
d7-N-MeFOSE



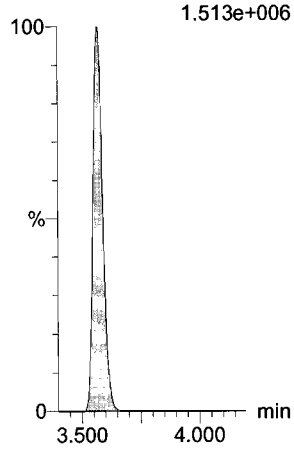
d9-N-EtFOSE



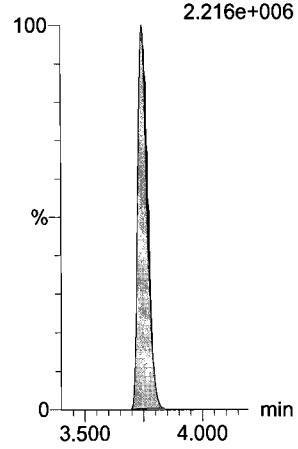
13C3-PFHxS



13C8-PFOA



13C9-PFNA



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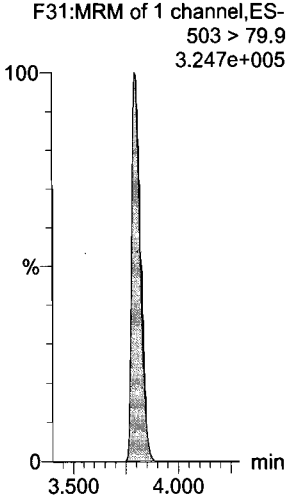
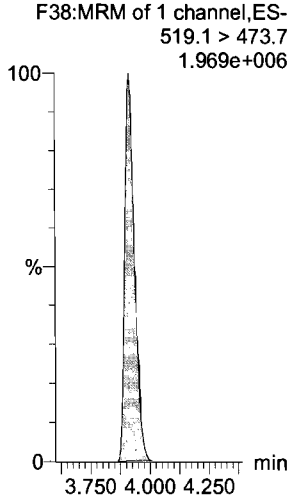
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_5, Date: 22-Aug-2017, Time: 11:34:29, ID: ST170822M1-4 PFC CS1 17H2205, Description: PFC CS1 17H2205

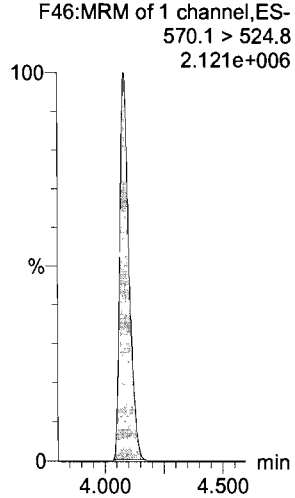
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_6, Date: 22-Aug-2017, Time: 11:45:07, ID: ST170822M1-5 PFC CS2 17H2206, Description: PFC CS2 17H2206

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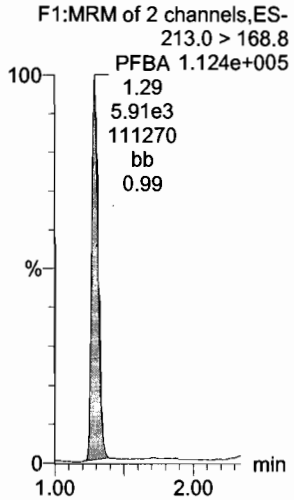

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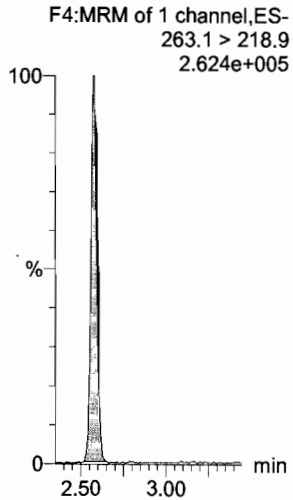

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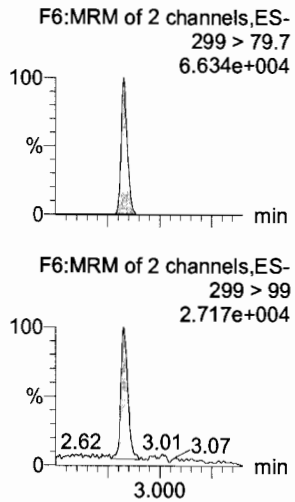
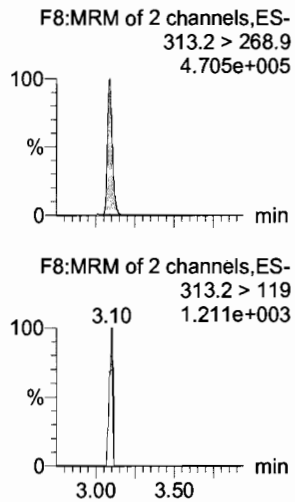


PFHxA



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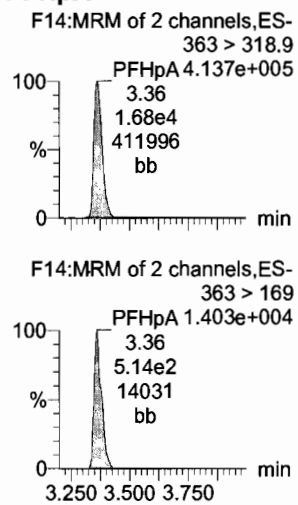

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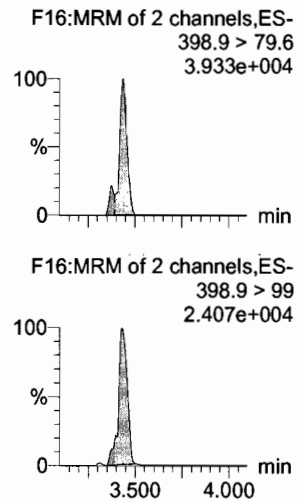
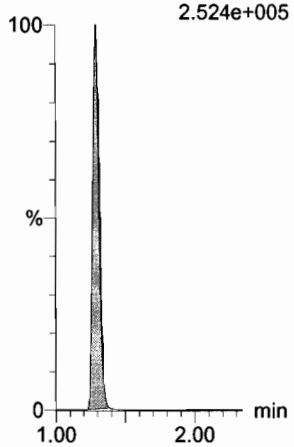
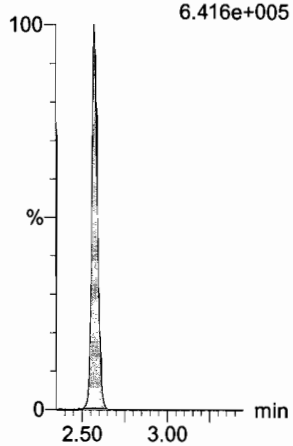


13C3-PFBA



13C3-PFPeA



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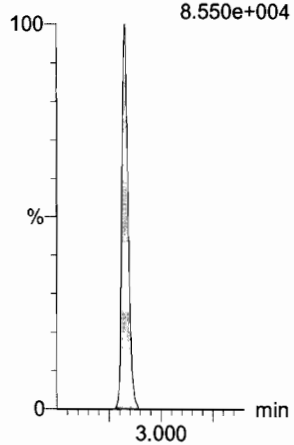
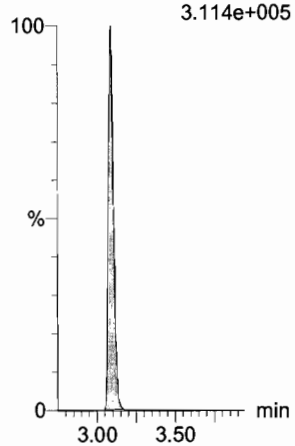
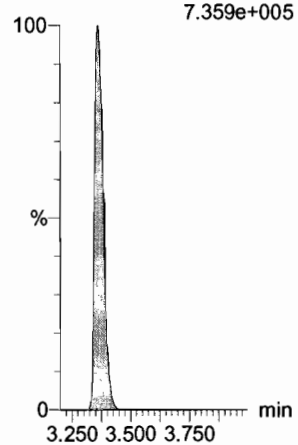


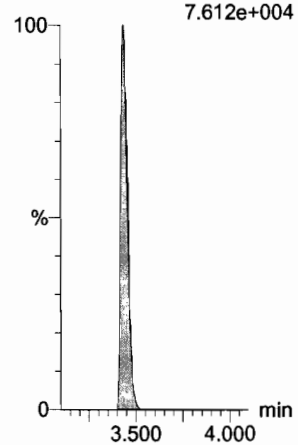
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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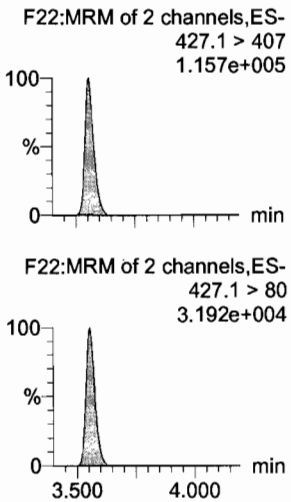
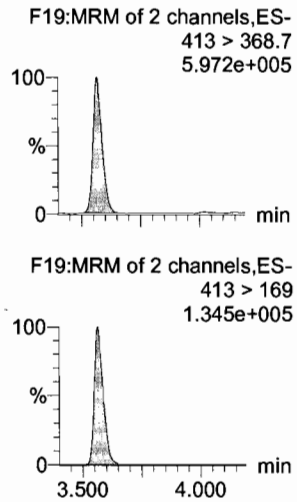
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_6, Date: 22-Aug-2017, Time: 11:45:07, ID: ST170822M1-5 PFC CS2 17H2206, Description: PFC CS2 17H2206

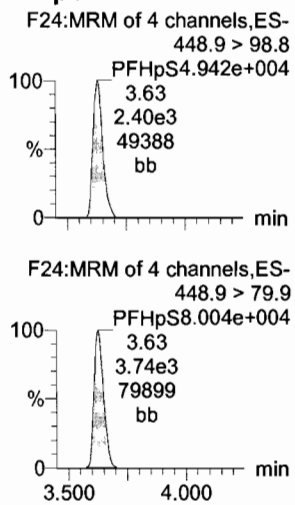
6:2 FTS



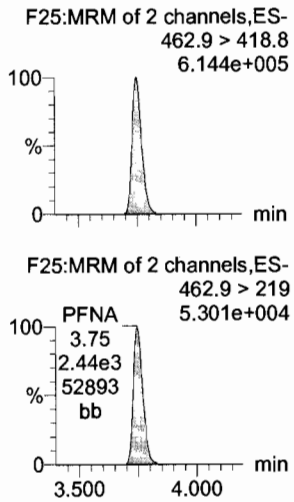
PFOA



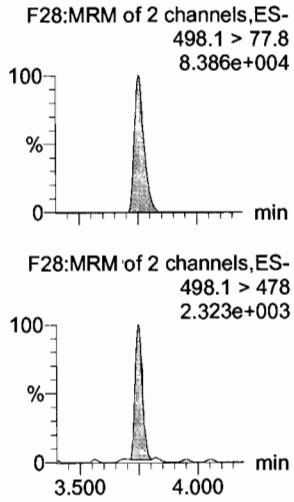
PFHpS



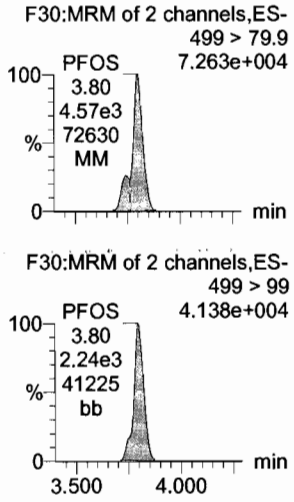
PFNA



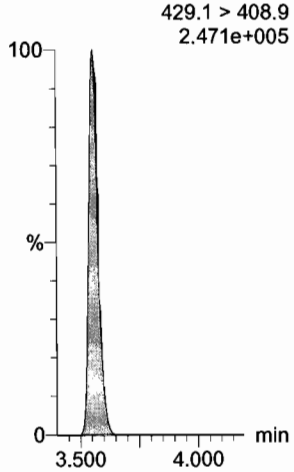
PFOSA



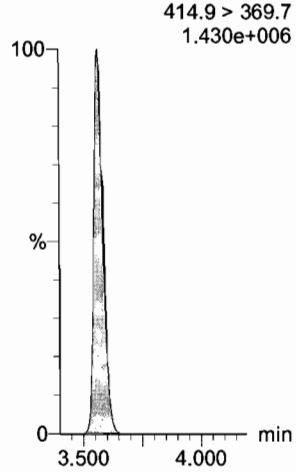
PFOS



13C2-6:2 FTS



13C2-PFOA



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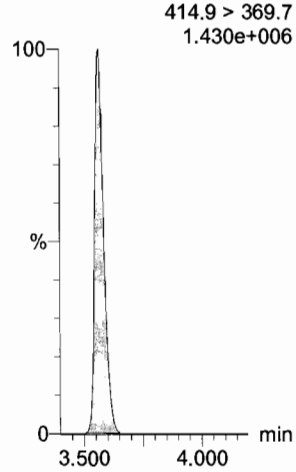

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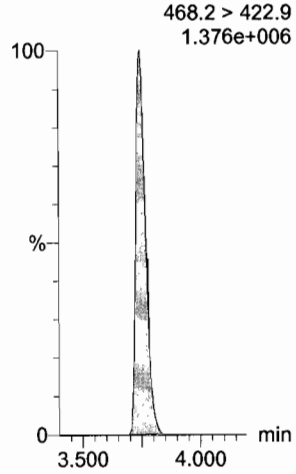
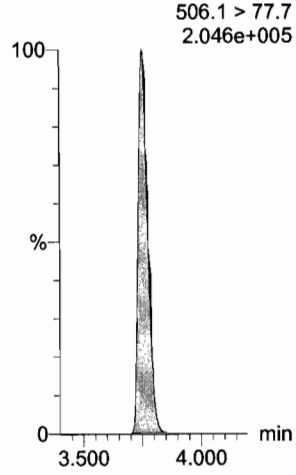
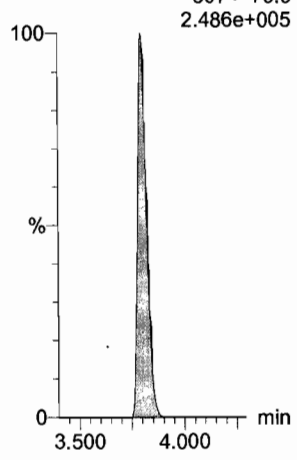


13C8-PFOSA



13C8-PFOS



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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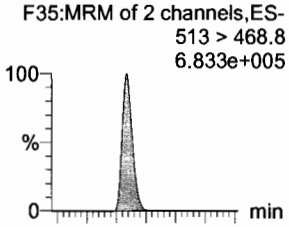
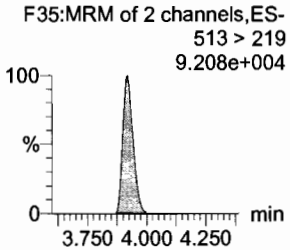
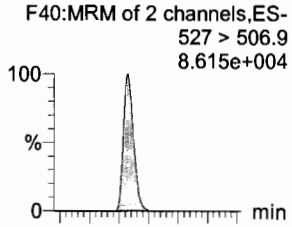
Name: 170822M1_6, Date: 22-Aug-2017, Time: 11:45:07, ID: ST170822M1-5 PFC CS2 17H2206, Description: PFC CS2 17H2206

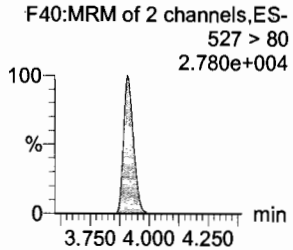
PFDA





8:2 FTS





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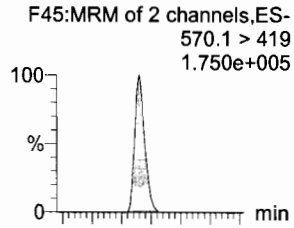
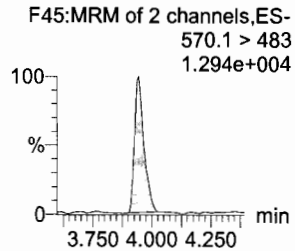
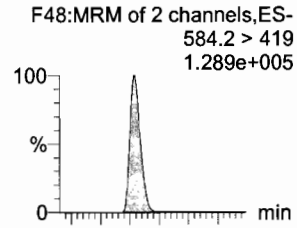
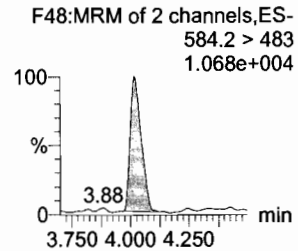


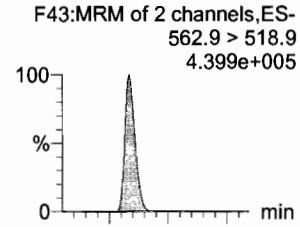


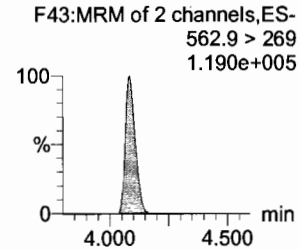
N-EtFOSAA





PFUnA





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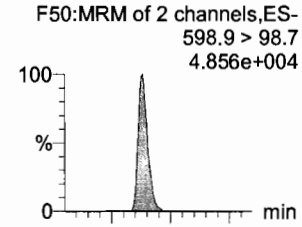
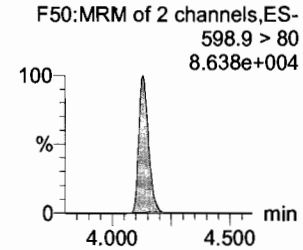
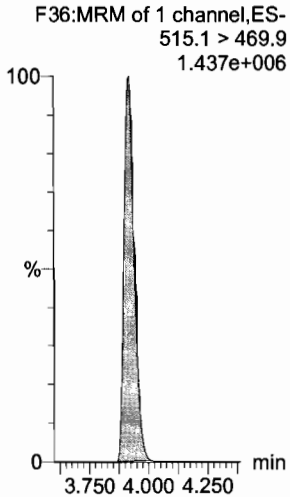
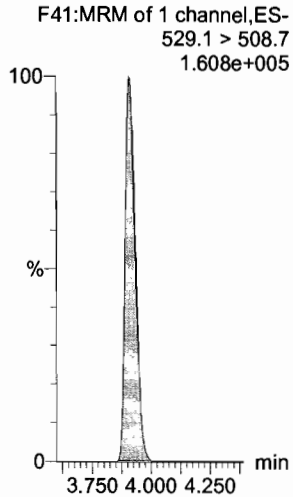




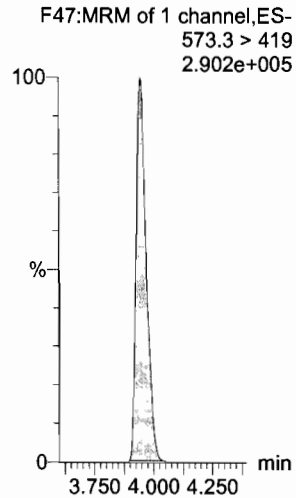
13C2-PFDA



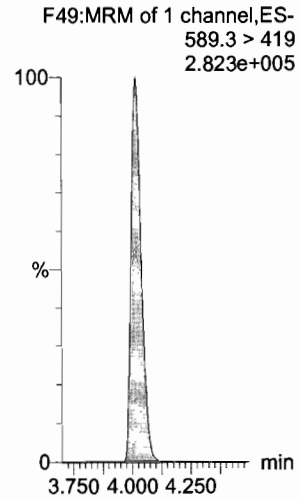
13C2-8:2 FTS



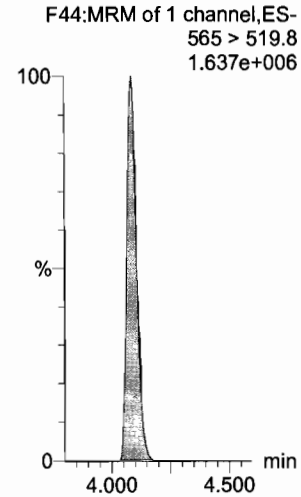
d3-N-MeFOSAA



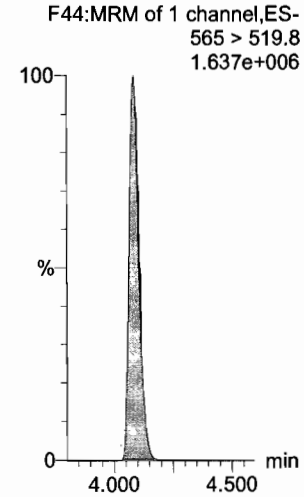
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

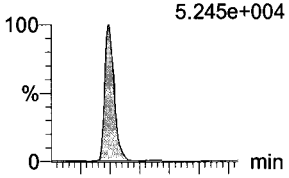


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

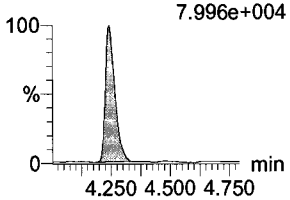
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_6, Date: 22-Aug-2017, Time: 11:45:07, ID: ST170822M1-5 PFC CS2 17H2206, Description: PFC CS2 17H2206

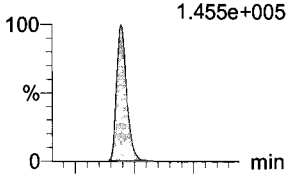
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
5.245e+004



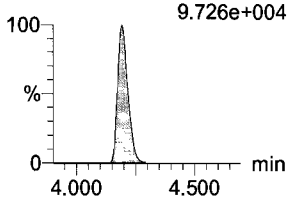
F51:MRM of 2 channels,ES-
612.9 > 569
7.996e+004



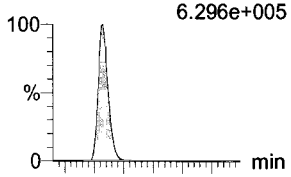
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
1.455e+005



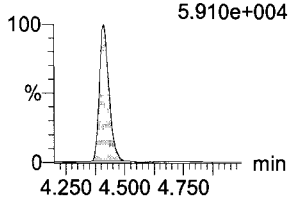
F34:MRM of 2 channels,ES-
512.1 > 219
9.726e+004



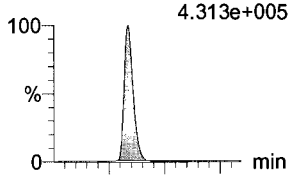
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
6.296e+005



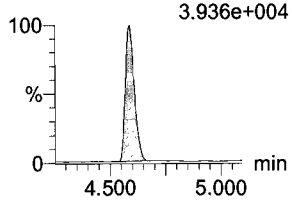
F57:MRM of 2 channels,ES-
662.9 > 319
5.910e+004



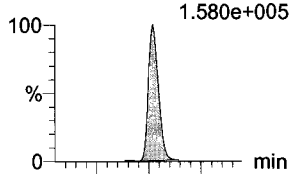
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
4.313e+005



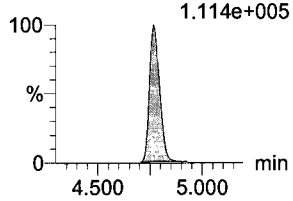
F58:MRM of 4 channels,ES-
712.9 > 369
3.936e+004



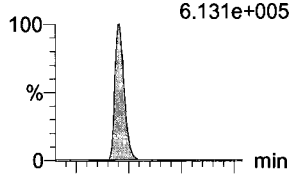
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
1.580e+005



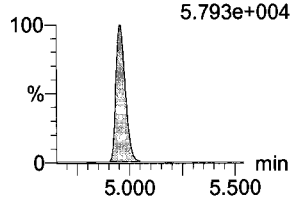
F39:MRM of 2 channels,ES-
526.1 > 219
1.114e+005



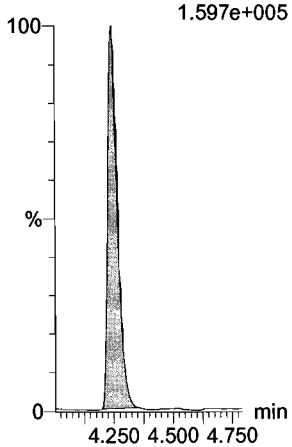
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
6.131e+005



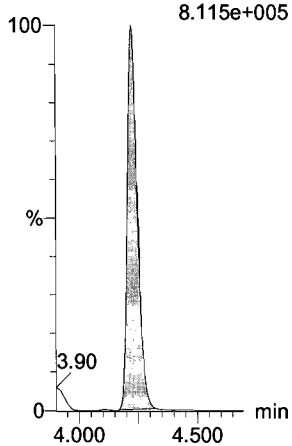
F60:MRM of 2 channels,ES-
812.8 > 219
5.793e+004



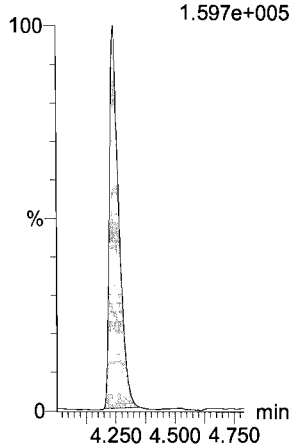
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.597e+005



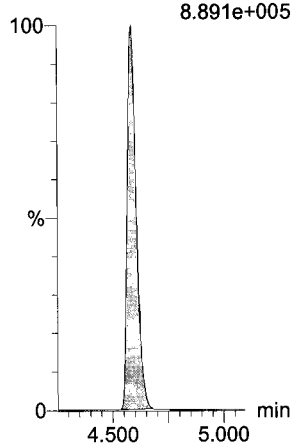
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
8.115e+005



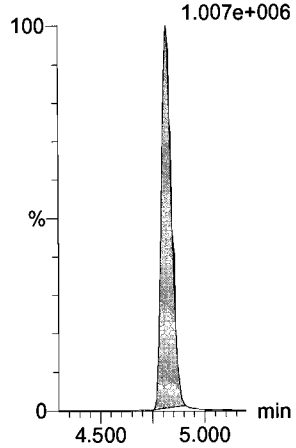
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.597e+005



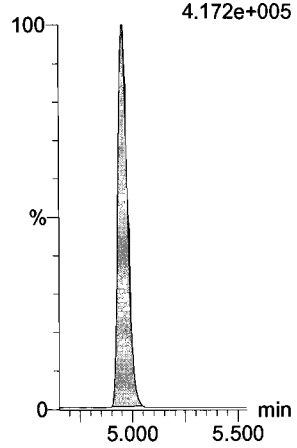
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
8.891e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
1.007e+006



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.172e+005



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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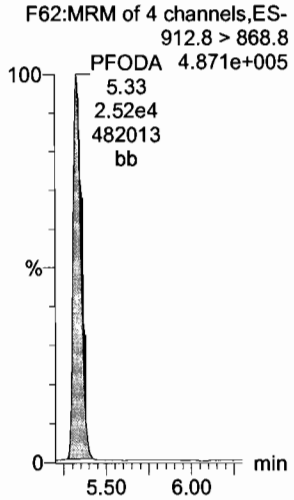
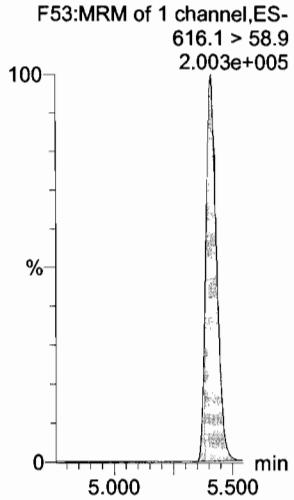
Name: 170822M1_6, Date: 22-Aug-2017, Time: 11:45:07, ID: ST170822M1-5 PFC CS2 17H2206, Description: PFC CS2 17H2206

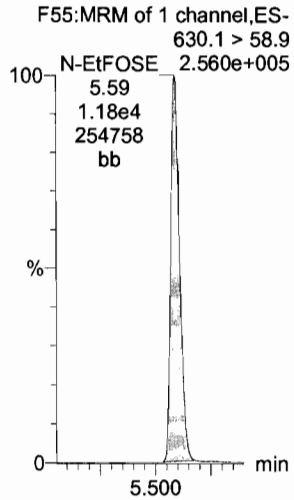
PFODA



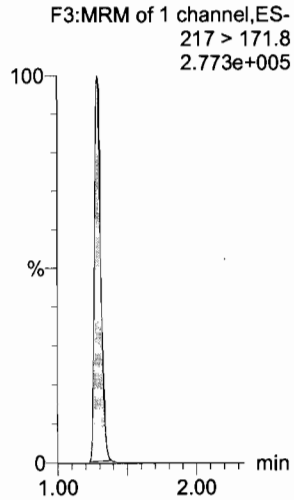
N-MeFOSE



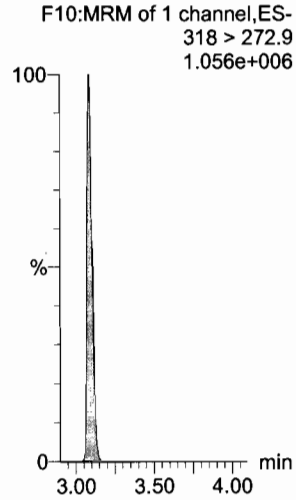
N-EtFOSE



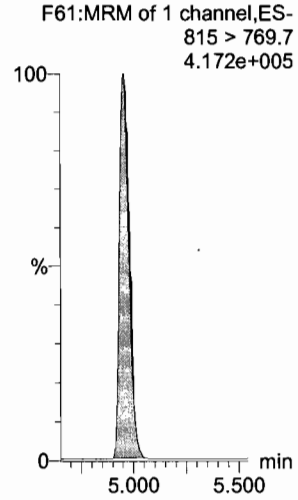
13C4-PFBA



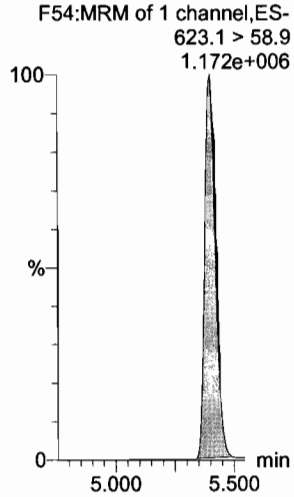
13C5-PFHxA



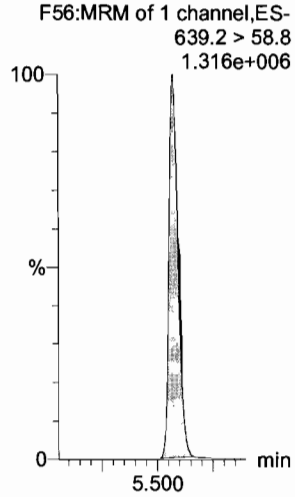
13C2-PFHxDA



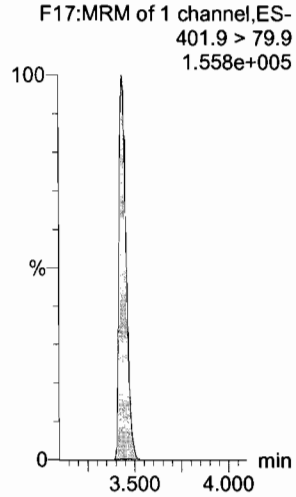
d7-N-MeFOSE



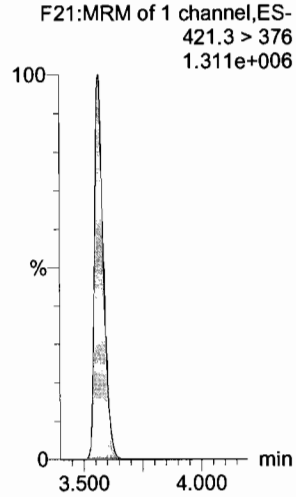
d9-N-EtFOSE



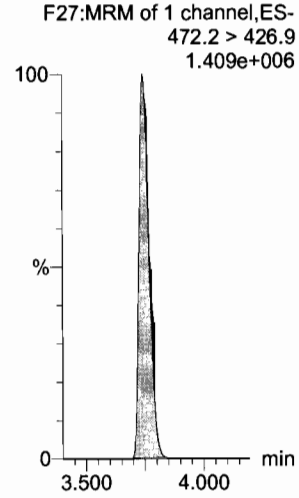
13C3-PFHxS



13C8-PFOA



13C9-PFNA



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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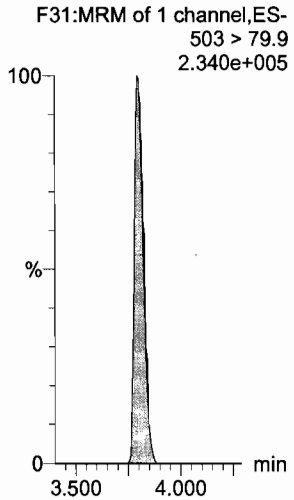
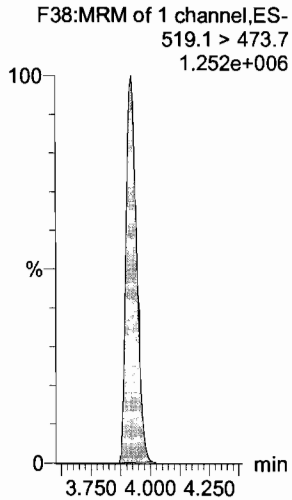
Name: 170822M1_6, Date: 22-Aug-2017, Time: 11:45:07, ID: ST170822M1-5 PFC CS2 17H2206, Description: PFC CS2 17H2206

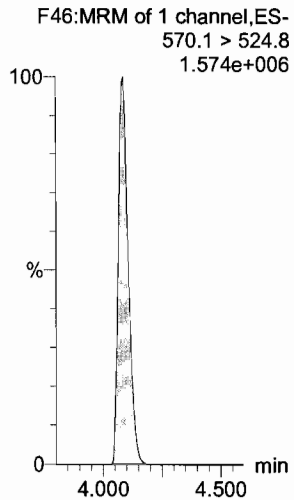
13C4-PFOS



13C6-PFDA



13C7-PFUnA

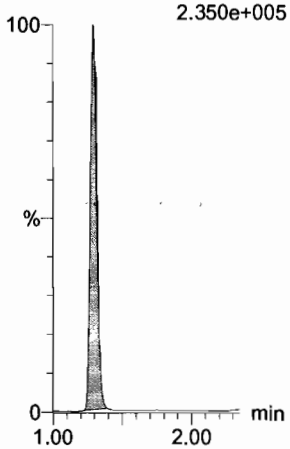


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

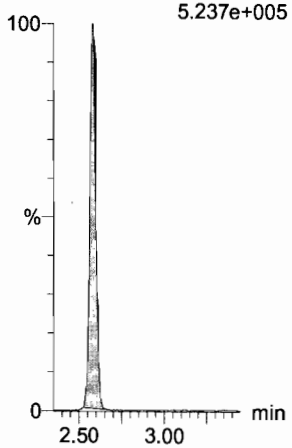
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_7, Date: 22-Aug-2017, Time: 11:55:45, ID: ST170822M1-6 PFC CS3 17H2207, Description: PFC CS3 17H2207

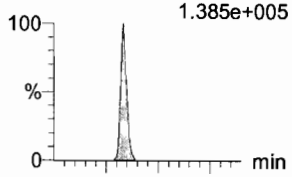
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
2.350e+005



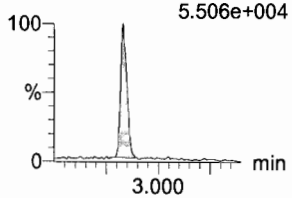
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
5.237e+005



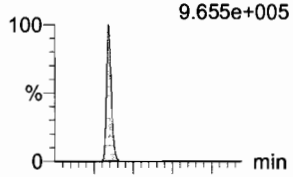
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
1.385e+005



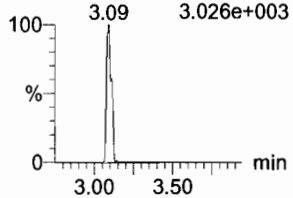
F6:MRM of 2 channels,ES-
299 > 99
5.506e+004



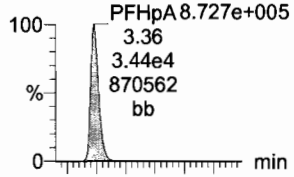
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
9.655e+005



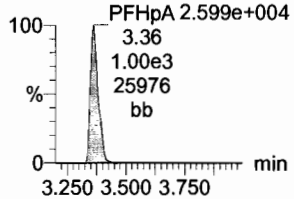
F8:MRM of 2 channels,ES-
313.2 > 119
3.026e+003



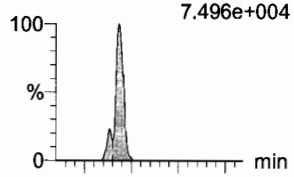
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
PFHpA 8.727e+005



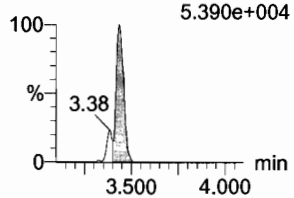
F14:MRM of 2 channels,ES-
363 > 169
PFHpA 2.599e+004



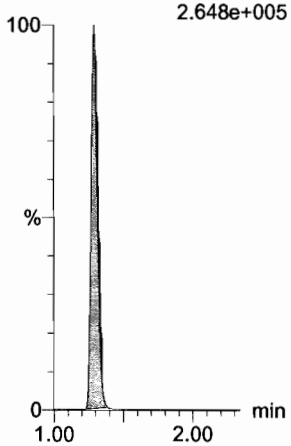
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
7.496e+004



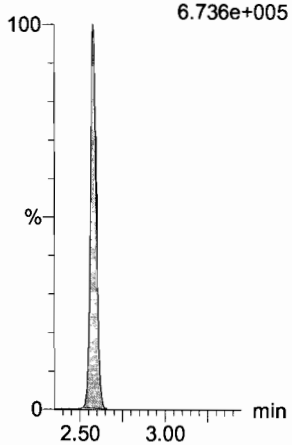
F16:MRM of 2 channels,ES-
398.9 > 99
5.390e+004



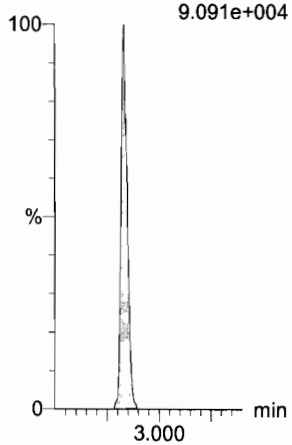
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.648e+005



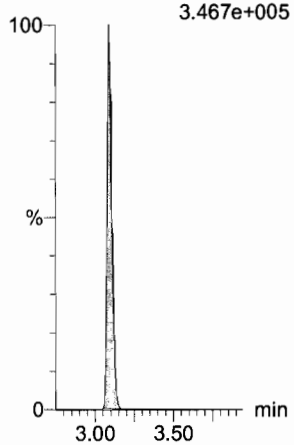
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
6.736e+005



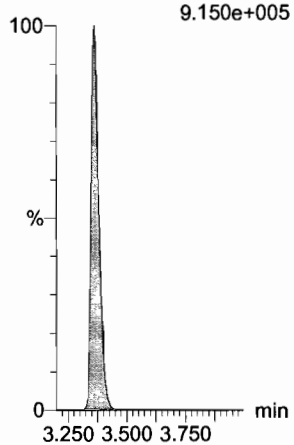
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
9.091e+004



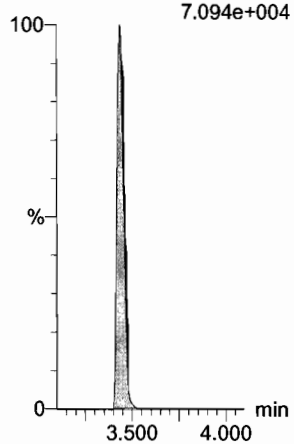
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.467e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
9.150e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
7.094e+004



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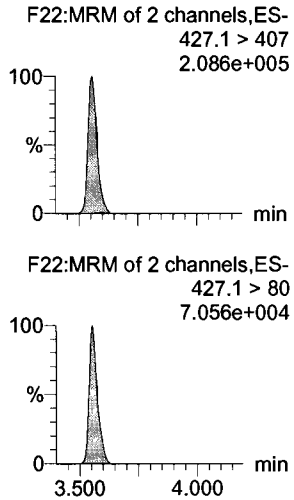
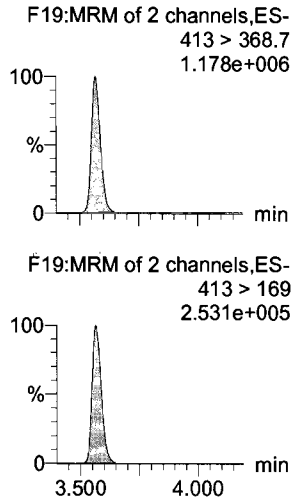
Name: 170822M1_7, Date: 22-Aug-2017, Time: 11:55:45, ID: ST170822M1-6 PFC CS3 17H2207, Description: PFC CS3 17H2207

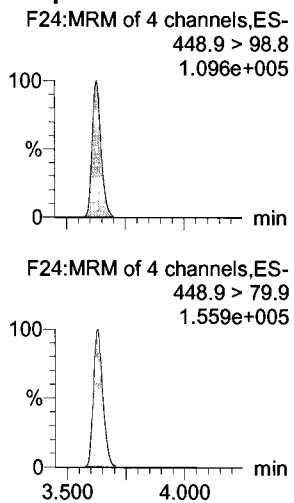
6:2 FTS



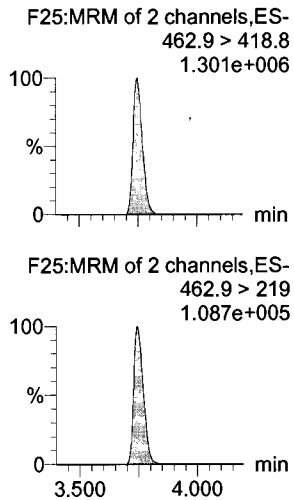
PFOA



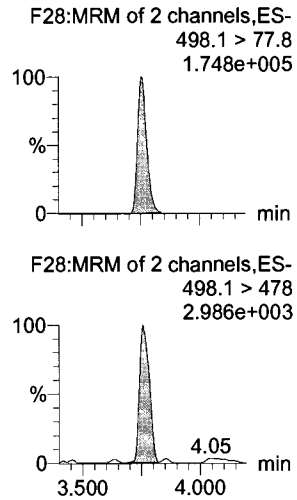
PFHpS



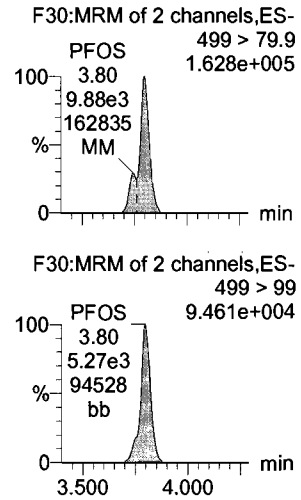
PFNA



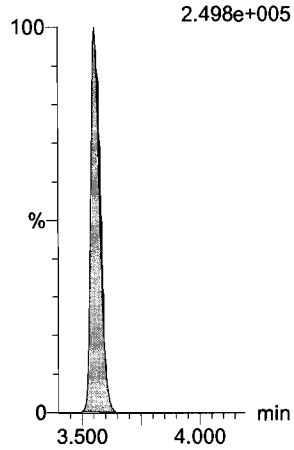
PFOSA



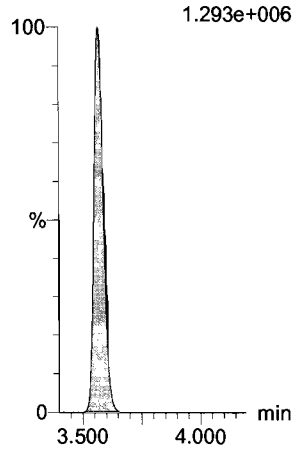
PFOS



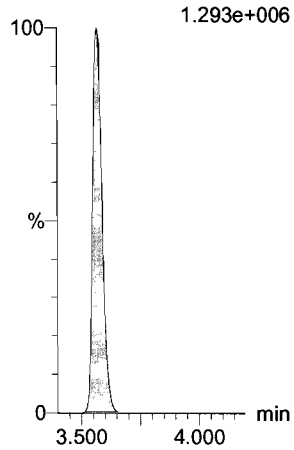
13C2-6:2 FTS



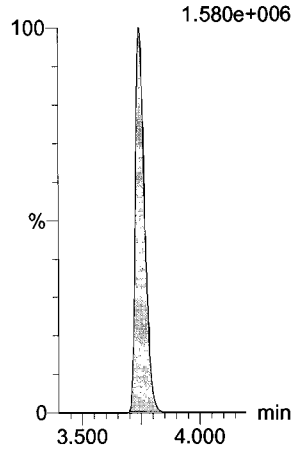
13C2-PFOA



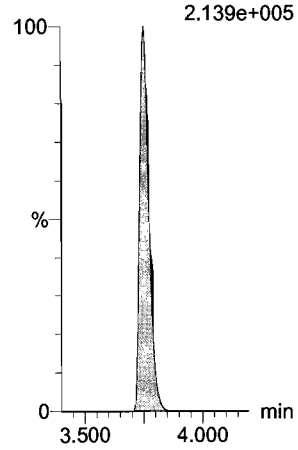
13C2-PFOA



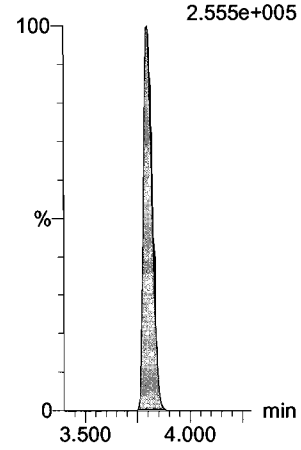
13C5-PFNA



13C8-PFOSA



13C8-PFOS



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

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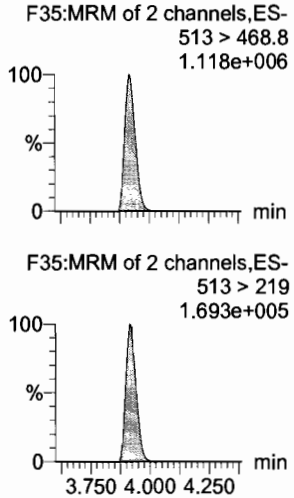
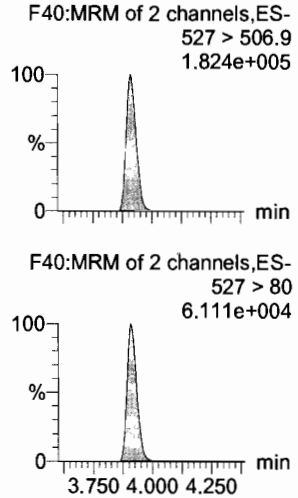
Name: 170822M1_7, Date: 22-Aug-2017, Time: 11:55:45, ID: ST170822M1-6 PFC CS3 17H2207, Description: PFC CS3 17H2207

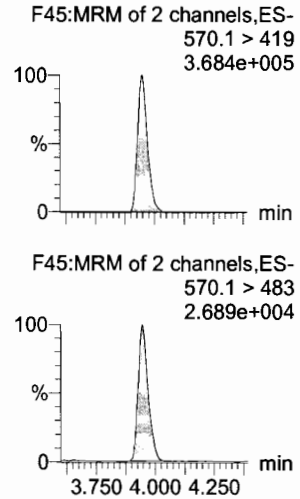
PFDA



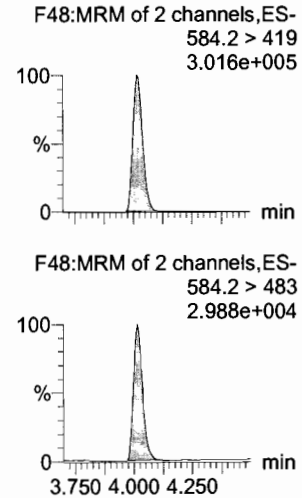
8:2 FTS



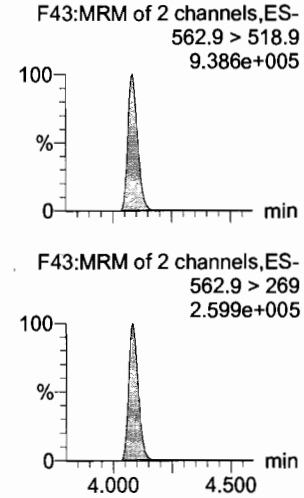
N-MeFOSAA



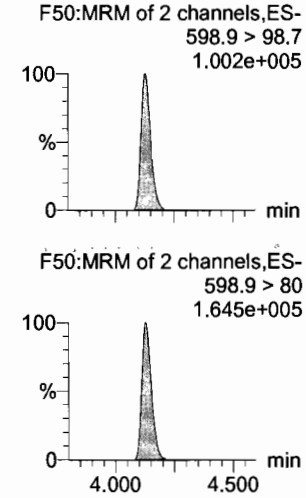
N-EtFOSAA



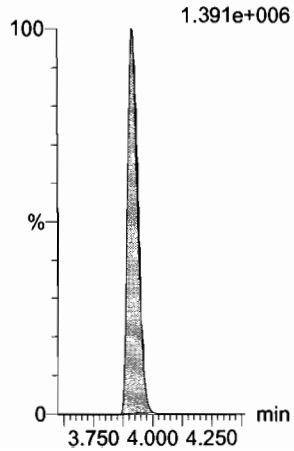
PFUnA



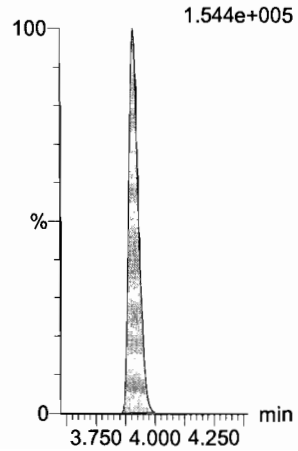
PFDS



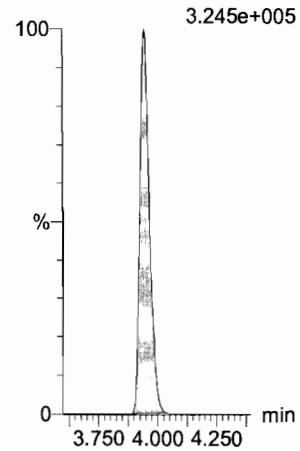
13C2-PFDA



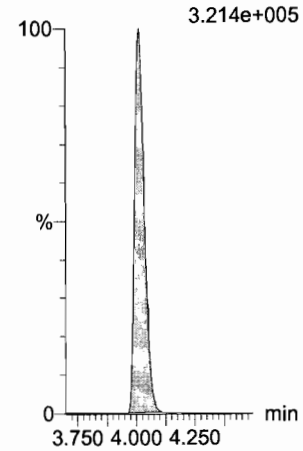
13C2-8:2 FTS



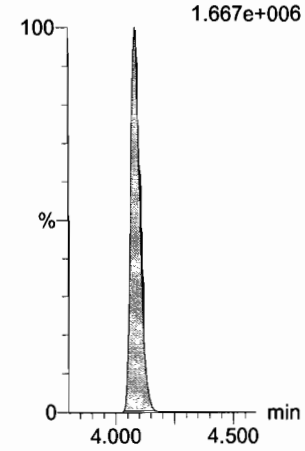
d3-N-MeFOSAA



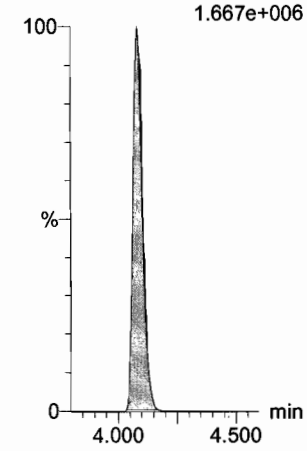
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



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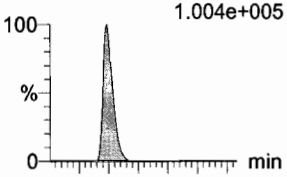
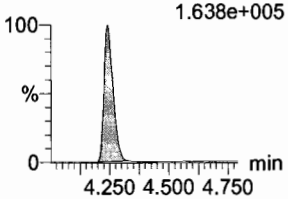
Name: 170822M1_7, Date: 22-Aug-2017, Time: 11:55:45, ID: ST170822M1-6 PFC CS3 17H2207, Description: PFC CS3 17H2207

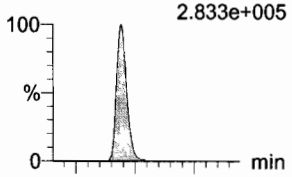
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
1.004e+005



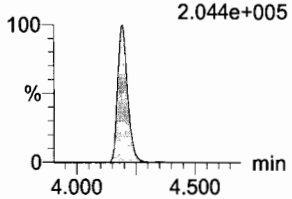
F51:MRM of 2 channels,ES-
612.9 > 569
1.638e+005



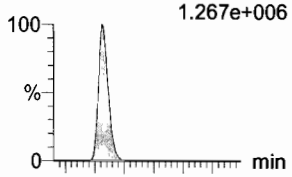
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
2.833e+005



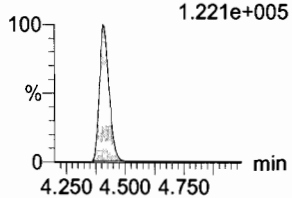
F34:MRM of 2 channels,ES-
512.1 > 219
2.044e+005



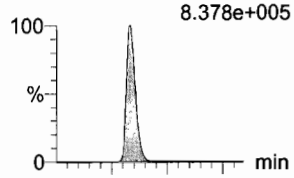
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
1.267e+006



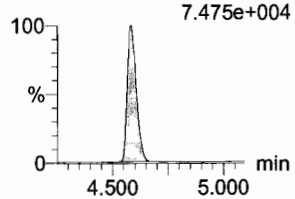
F57:MRM of 2 channels,ES-
662.9 > 319
1.221e+005



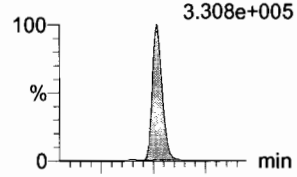
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
8.378e+005



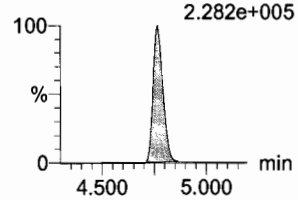
F58:MRM of 4 channels,ES-
712.9 > 369
7.475e+004



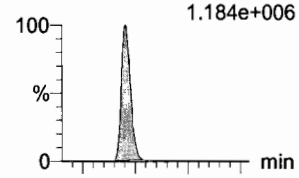
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
3.308e+005



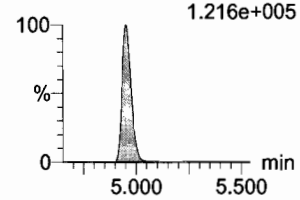
F39:MRM of 2 channels,ES-
526.1 > 219
2.282e+005



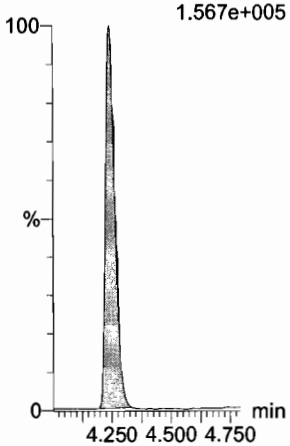
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
1.184e+006



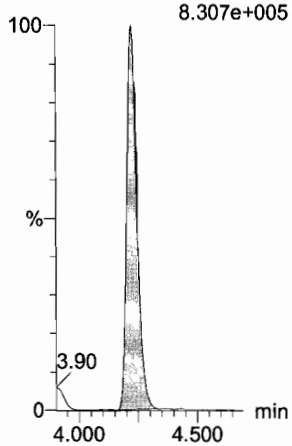
F60:MRM of 2 channels,ES-
812.8 > 219
1.216e+005



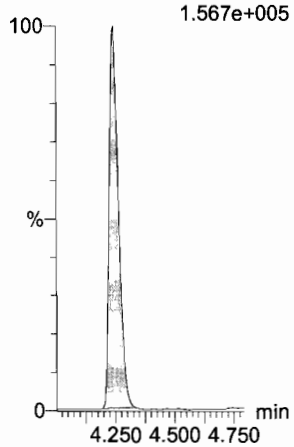
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.567e+005



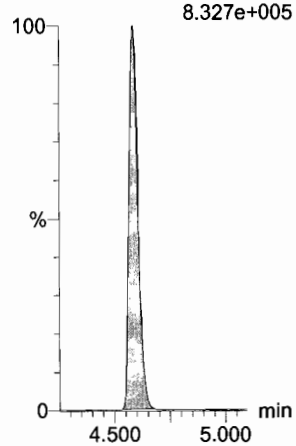
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
8.307e+005



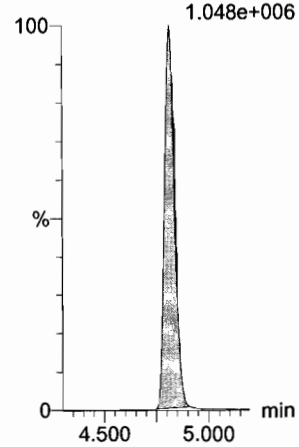
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.567e+005



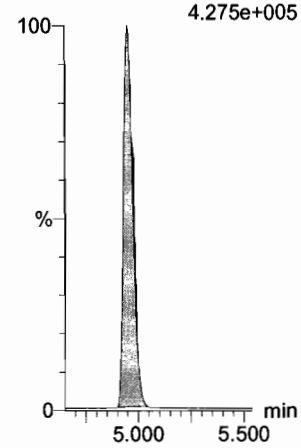
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
8.327e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
1.048e+006



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.275e+005



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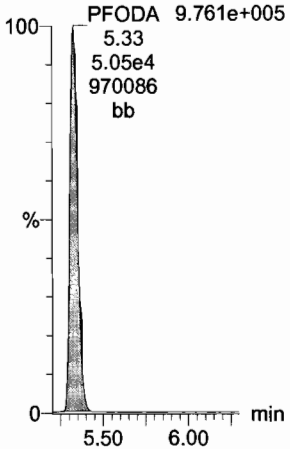
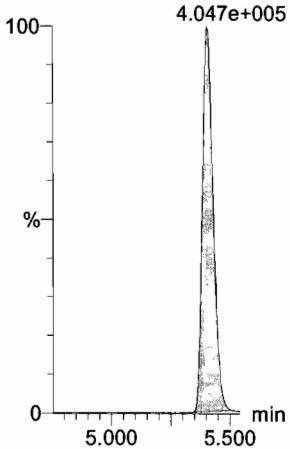
Name: 170822M1_7, Date: 22-Aug-2017, Time: 11:55:45, ID: ST170822M1-6 PFC CS3 17H2207, Description: PFC CS3 17H2207

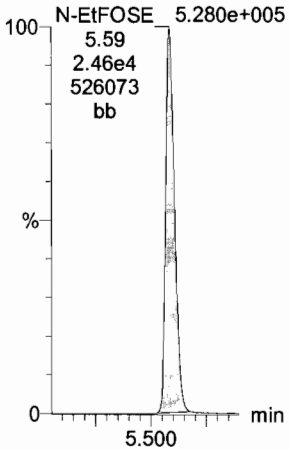
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
PFODA 9.761e+005



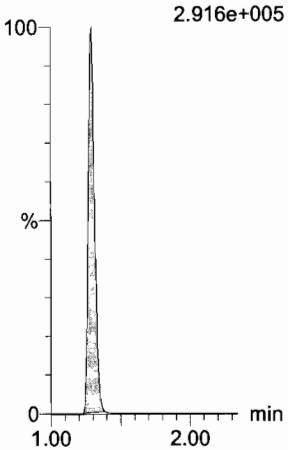
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
4.047e+005



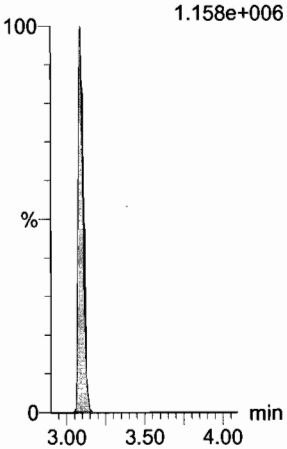
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
N-EtFOSE 5.280e+005



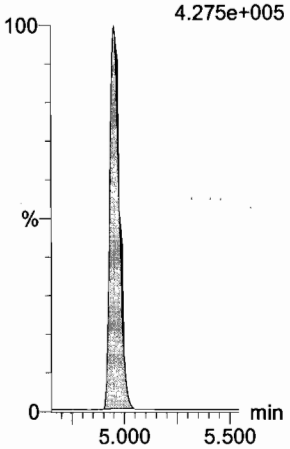
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.916e+005



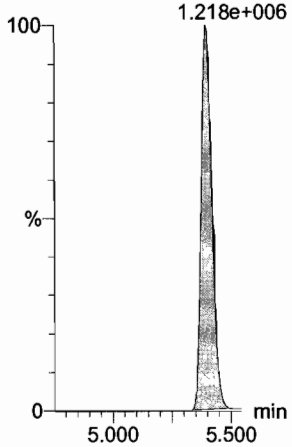
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.158e+006



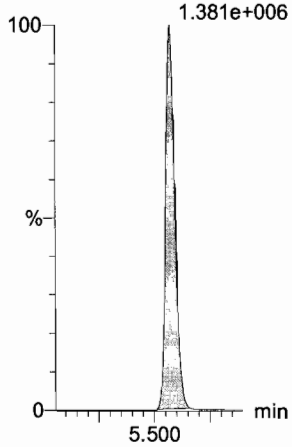
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.275e+005



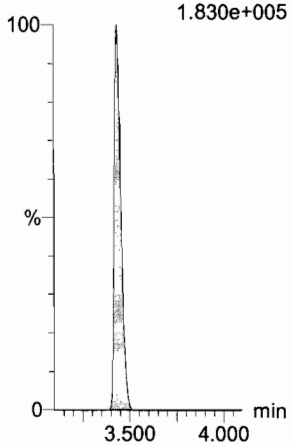
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
1.218e+006



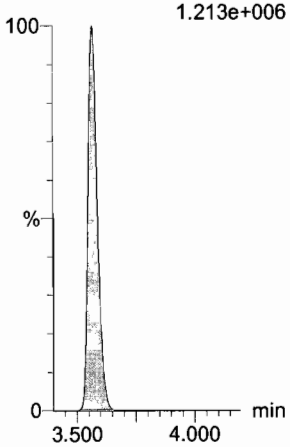
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
1.381e+006



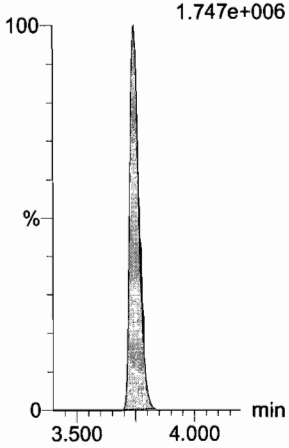
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.830e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.213e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.747e+006

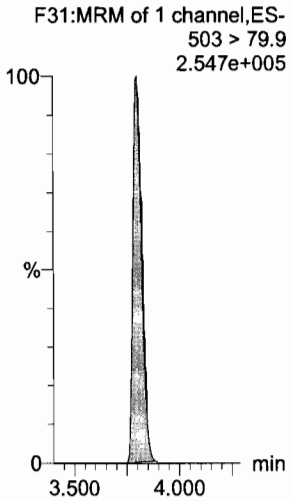


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

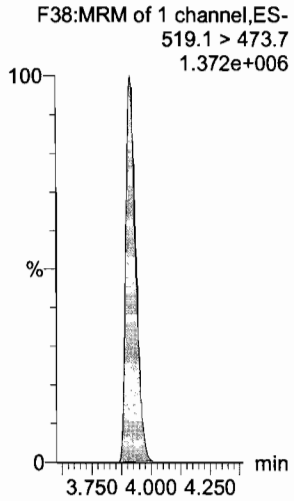
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_7, Date: 22-Aug-2017, Time: 11:55:45, ID: ST170822M1-6 PFC CS3 17H2207, Description: PFC CS3 17H2207

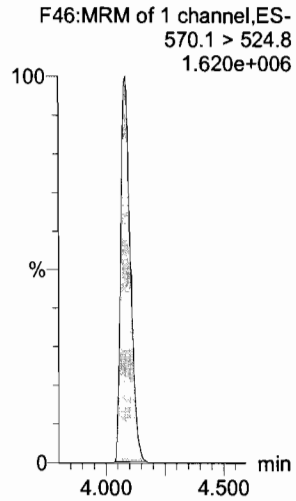
13C4-PFOS



13C6-PFDA



13C7-PFUnA

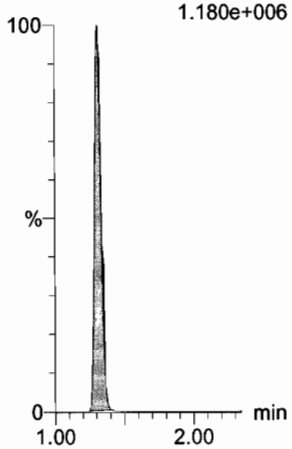


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

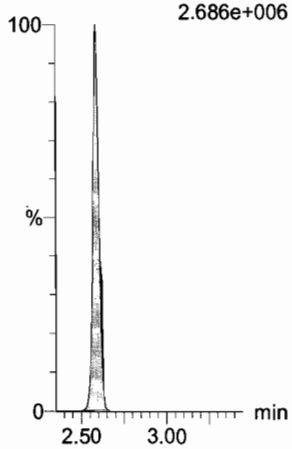
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_8, Date: 22-Aug-2017, Time: 12:06:39, ID: ST170822M1-7 PFC CS4 17H2208, Description: PFC CS4 17H2208

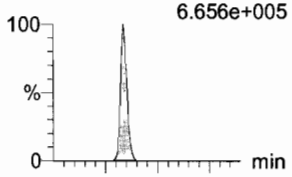
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
1.180e+006



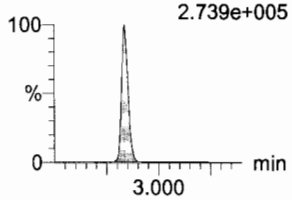
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
2.686e+006



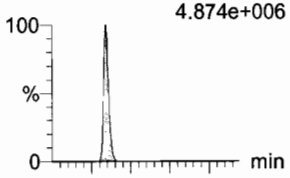
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
6.656e+005



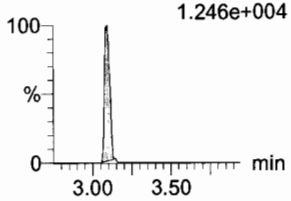
F6:MRM of 2 channels,ES-
299 > 99
2.739e+005



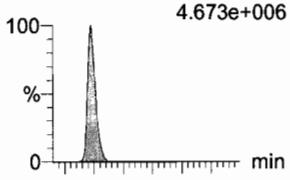
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
4.874e+006



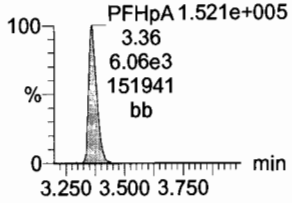
F8:MRM of 2 channels,ES-
313.2 > 119
1.246e+004



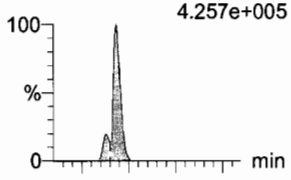
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
4.673e+006



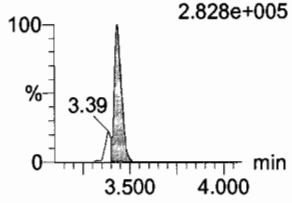
F14:MRM of 2 channels,ES-
363 > 169
PFHpA 1.521e+005
3.36
6.06e3
151941
bb



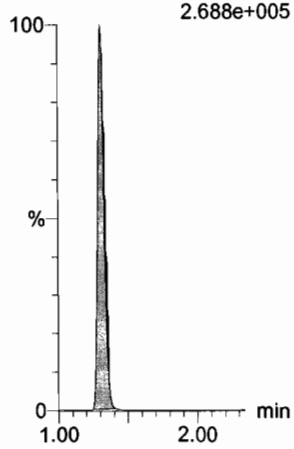
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
4.257e+005



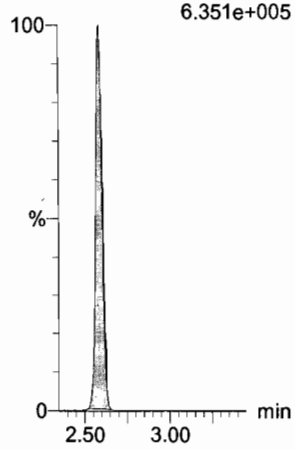
F16:MRM of 2 channels,ES-
398.9 > 99
2.828e+005



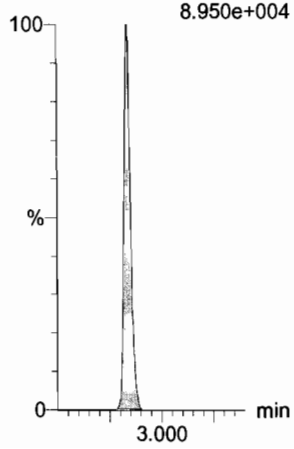
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.688e+005



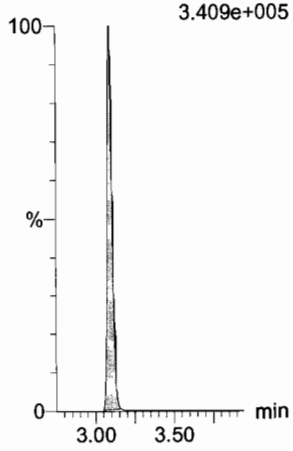
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
6.351e+005



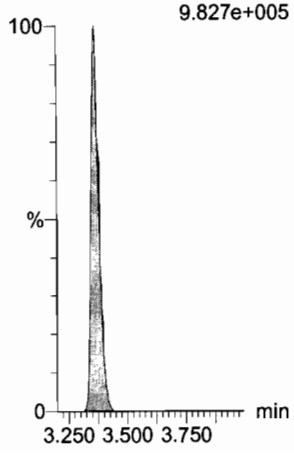
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
8.950e+004



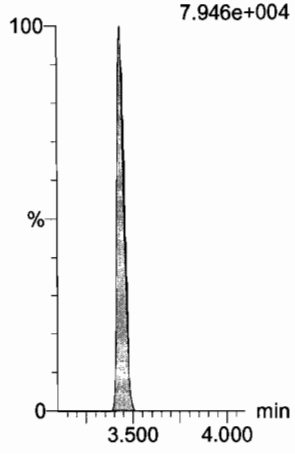
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.409e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
9.827e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
7.946e+004



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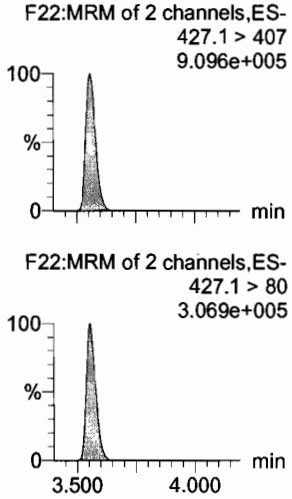
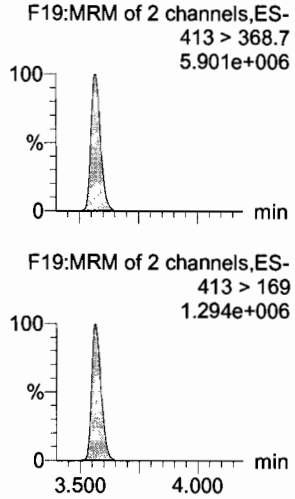
Name: 170822M1_8, Date: 22-Aug-2017, Time: 12:06:39, ID: ST170822M1-7 PFC CS4 17H2208, Description: PFC CS4 17H2208

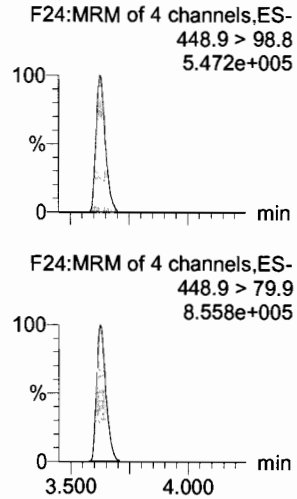
6:2 FTS



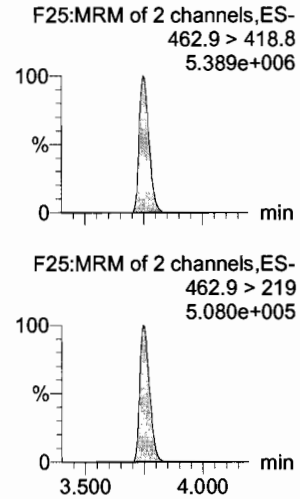
PFOA



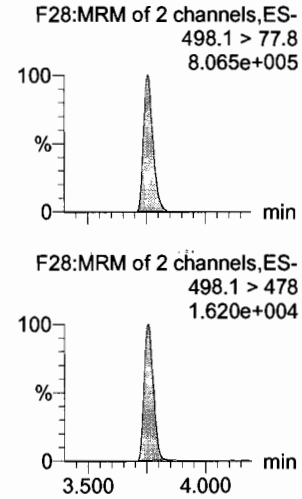
PFHpS



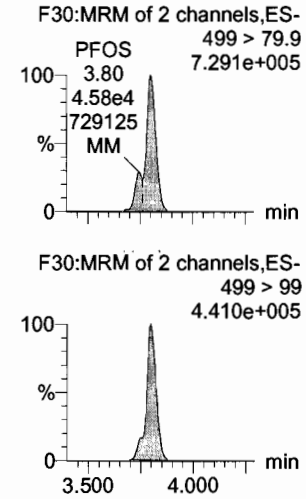
PFNA



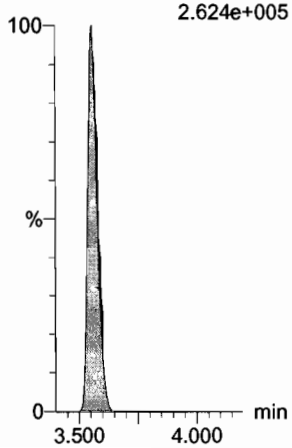
PFOSA



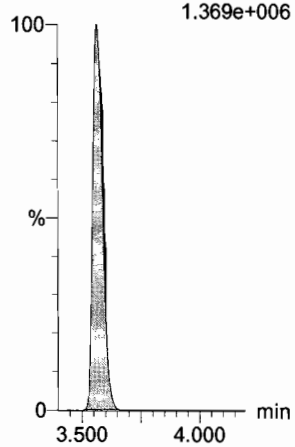
PFOS



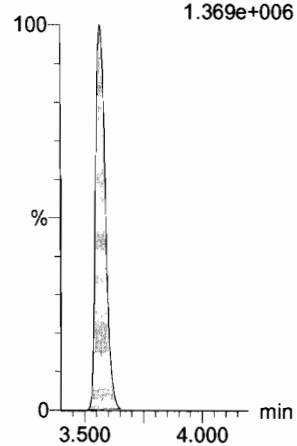
13C2-6:2 FTS



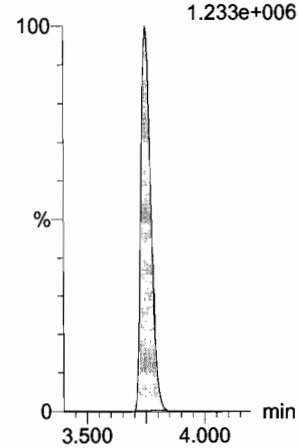
13C2-PFOA



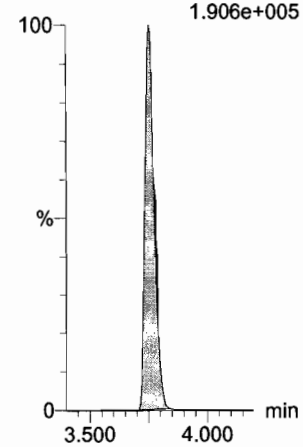
13C2-PFOA



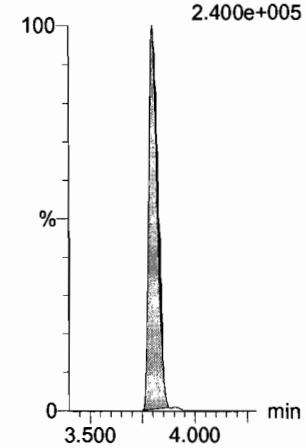
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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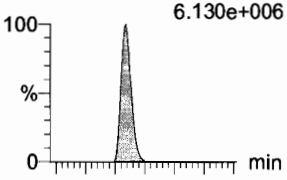
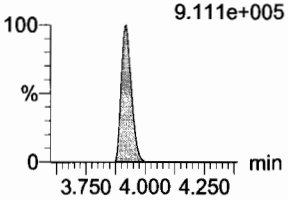
Name: 170822M1_8, Date: 22-Aug-2017, Time: 12:06:39, ID: ST170822M1-7 PFC CS4 17H2208, Description: PFC CS4 17H2208

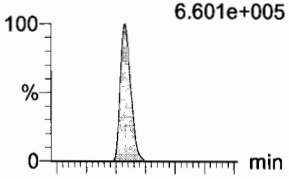
PFDA
F35:MRM of 2 channels,ES-
513 > 468.8
6.130e+006



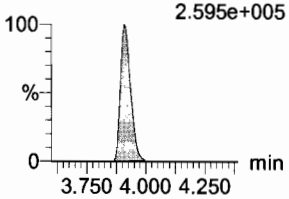
F35:MRM of 2 channels,ES-
513 > 219
9.111e+005



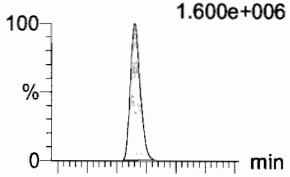
8:2 FTS
F40:MRM of 2 channels,ES-
527 > 506.9
6.601e+005



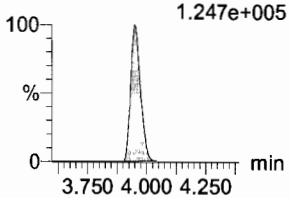
F40:MRM of 2 channels,ES-
527 > 80
2.595e+005



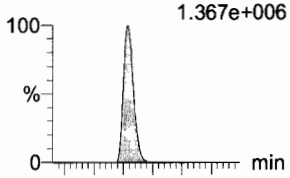
N-MeFOSAA
F45:MRM of 2 channels,ES-
570.1 > 419
1.600e+006



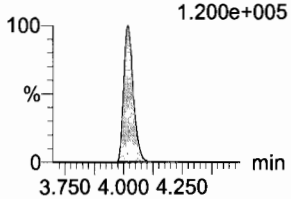
F45:MRM of 2 channels,ES-
570.1 > 483
1.247e+005



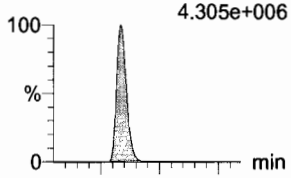
N-EtFOSAA
F48:MRM of 2 channels,ES-
584.2 > 419
1.367e+006



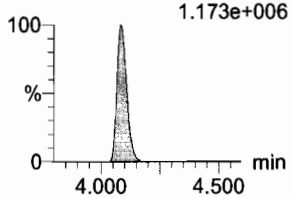
F48:MRM of 2 channels,ES-
584.2 > 483
1.200e+005



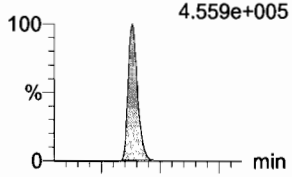
PFUnA
F43:MRM of 2 channels,ES-
562.9 > 518.9
4.305e+006



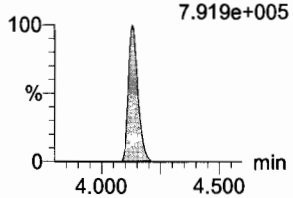
F43:MRM of 2 channels,ES-
562.9 > 269
1.173e+006



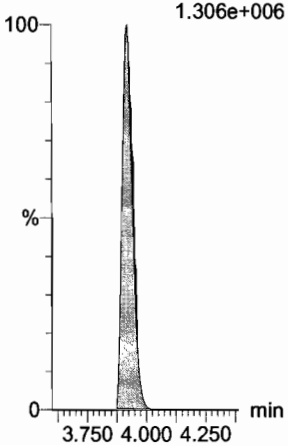
PFDS
F50:MRM of 2 channels,ES-
598.9 > 98.7
4.559e+005



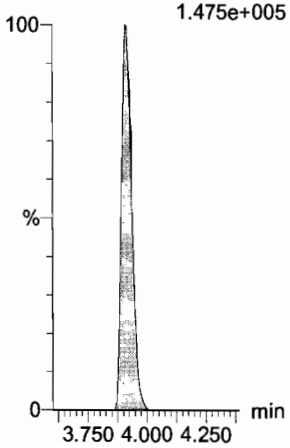
F50:MRM of 2 channels,ES-
598.9 > 80
7.919e+005



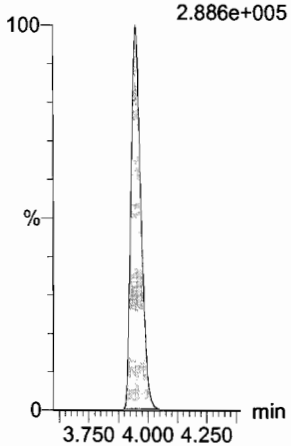
13C2-PFDA
F36:MRM of 1 channel,ES-
515.1 > 469.9
1.306e+006



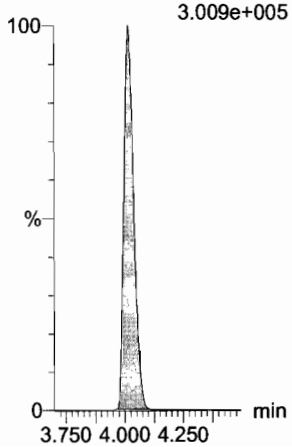
13C2-8:2 FTS
F41:MRM of 1 channel,ES-
529.1 > 508.7
1.475e+005



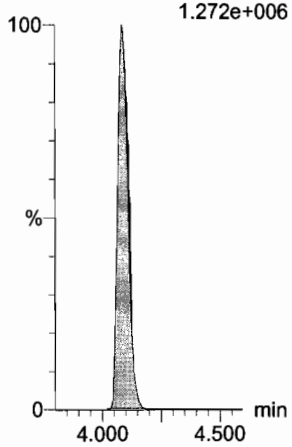
d3-N-MeFOSAA
F47:MRM of 1 channel,ES-
573.3 > 419
2.886e+005



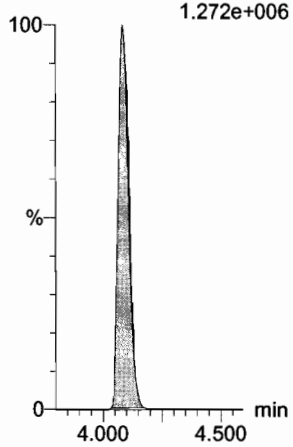
d5-N-EtFOSAA
F49:MRM of 1 channel,ES-
589.3 > 419
3.009e+005



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.272e+006



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.272e+006



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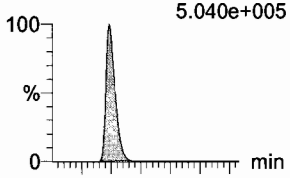
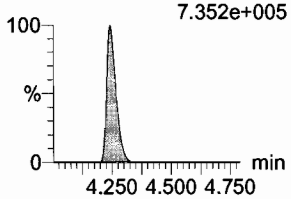
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_8, Date: 22-Aug-2017, Time: 12:06:39, ID: ST170822M1-7 PFC CS4 17H2208, Description: PFC CS4 17H2208

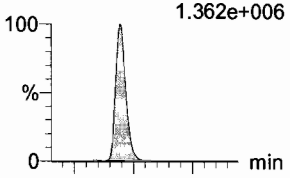
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
5.040e+005



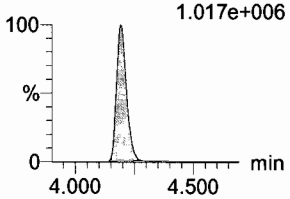
F51:MRM of 2 channels,ES-
612.9 > 569
7.352e+005



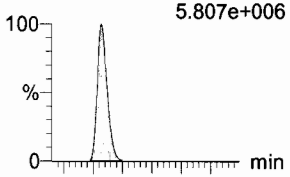
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
1.362e+006



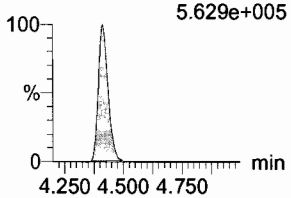
F34:MRM of 2 channels,ES-
512.1 > 219
1.017e+006



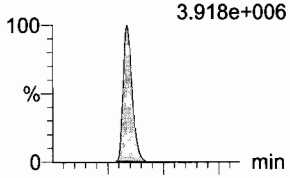
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
5.807e+006



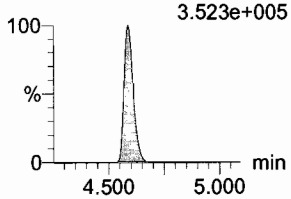
F57:MRM of 2 channels,ES-
662.9 > 319
5.629e+005



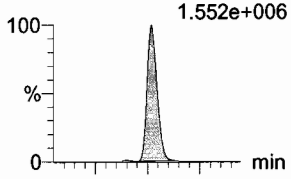
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
3.918e+006



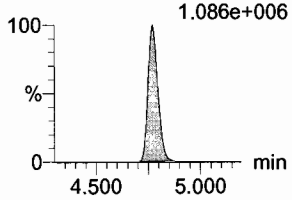
F58:MRM of 4 channels,ES-
712.9 > 369
3.523e+005



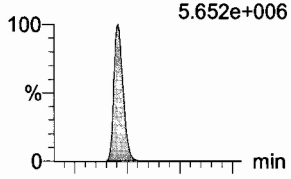
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
1.552e+006



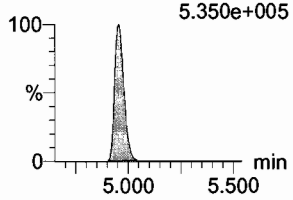
F39:MRM of 2 channels,ES-
526.1 > 219
1.086e+006



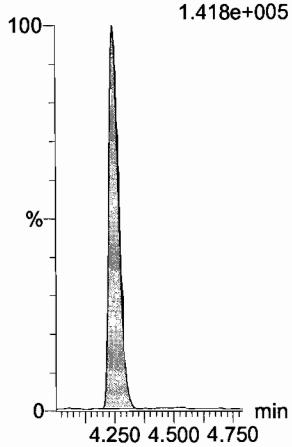
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
5.652e+006



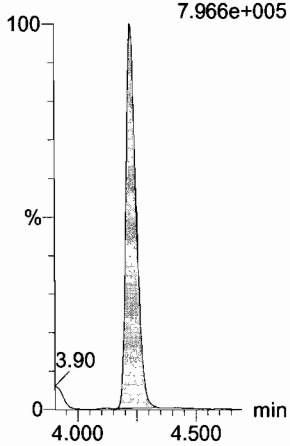
F60:MRM of 2 channels,ES-
812.8 > 219
5.350e+005



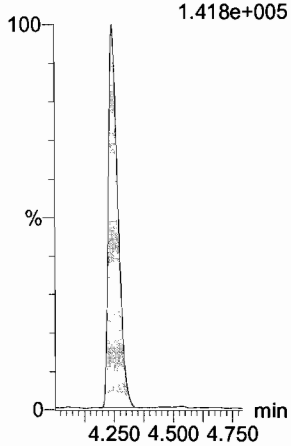
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.418e+005



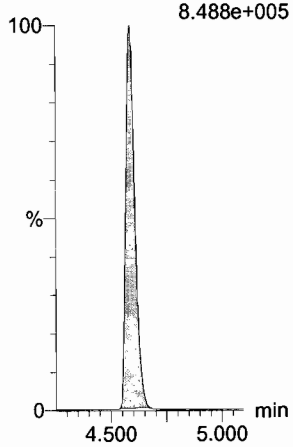
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
7.966e+005



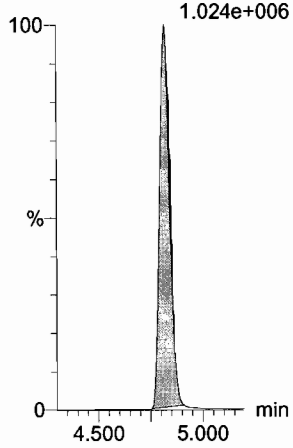
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.418e+005



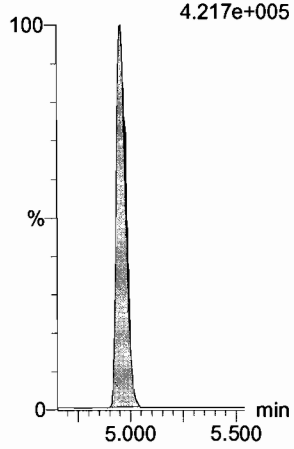
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
8.488e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
1.024e+006



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.217e+005



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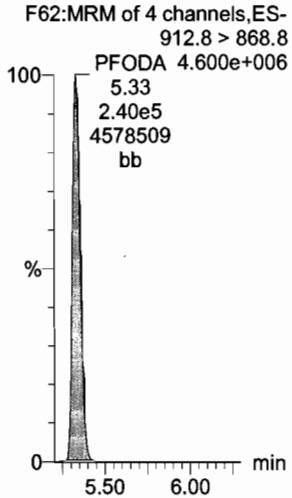
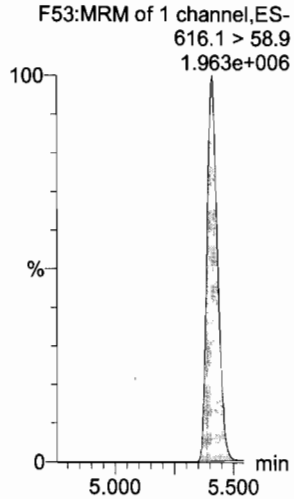
Name: 170822M1_8, Date: 22-Aug-2017, Time: 12:06:39, ID: ST170822M1-7 PFC CS4 17H2208, Description: PFC CS4 17H2208

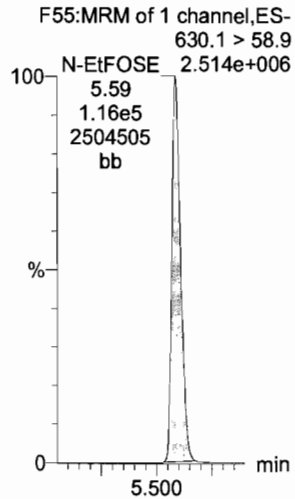
PFODA



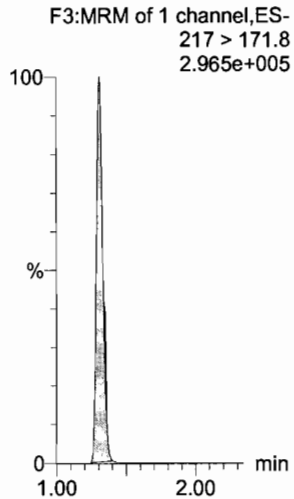
N-MeFOSE



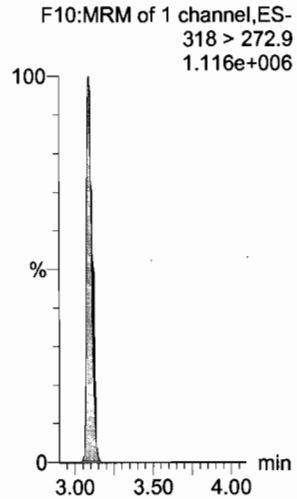
N-EtFOSE



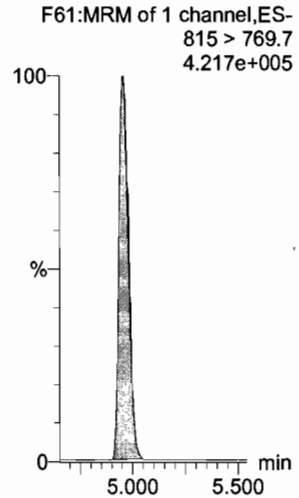
13C4-PFBA



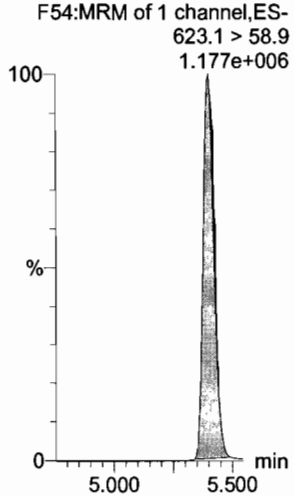
13C5-PFHxA



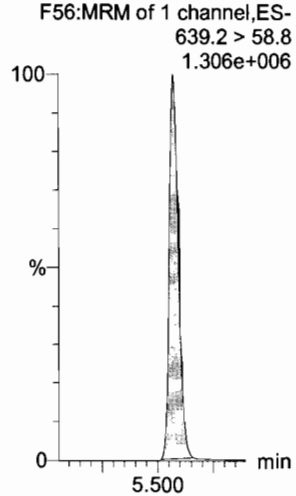
13C2-PFHxDA



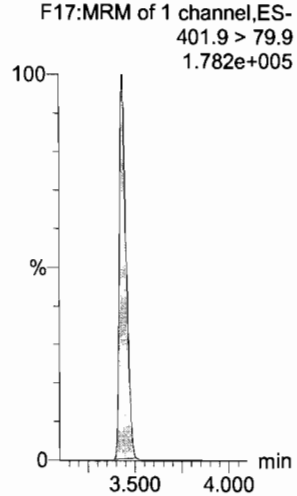
d7-N-MeFOSE



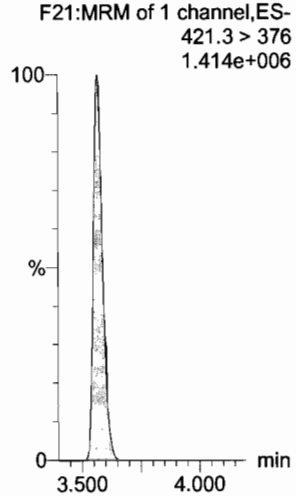
d9-N-EtFOSE



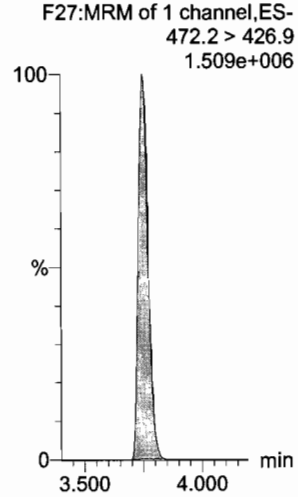
13C3-PFHxS



13C8-PFOA



13C9-PFNA



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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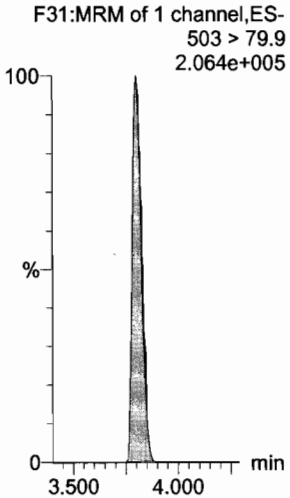
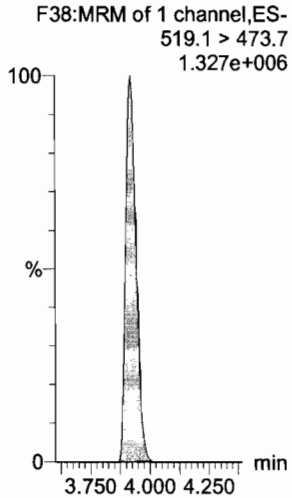
Name: 170822M1_8, Date: 22-Aug-2017, Time: 12:06:39, ID: ST170822M1-7 PFC CS4 17H2208, Description: PFC CS4 17H2208

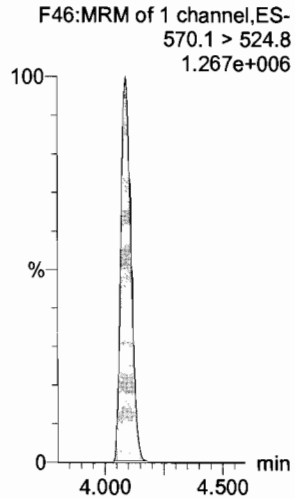
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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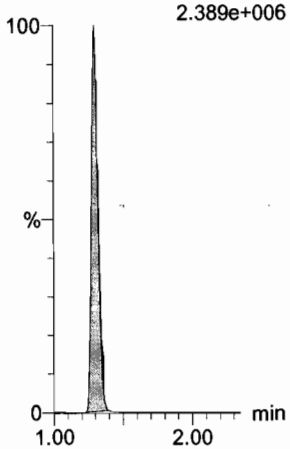
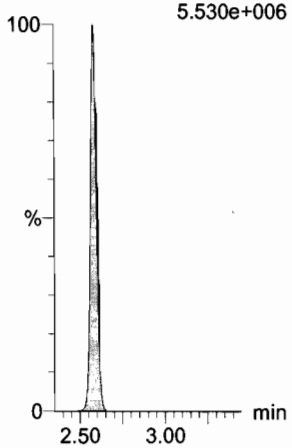
Name: 170822M1_9, Date: 22-Aug-2017, Time: 12:17:36, ID: ST170822M1-8 PFC CS5 17H2209, Description: PFC CS5 17H2209

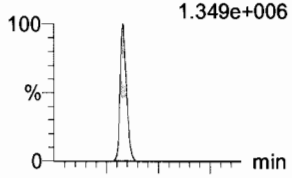
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
2.389e+006



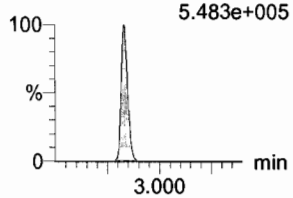
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
5.530e+006



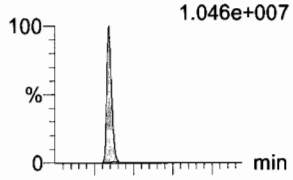
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
1.349e+006



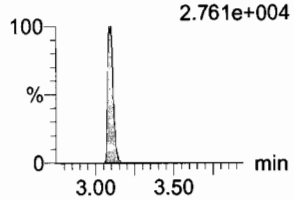
F6:MRM of 2 channels,ES-
299 > 99
5.483e+005



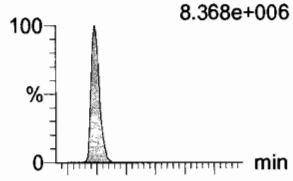
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
1.046e+007



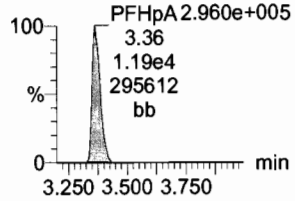
F8:MRM of 2 channels,ES-
313.2 > 119
2.761e+004



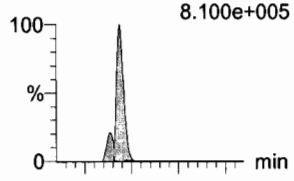
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
8.368e+006



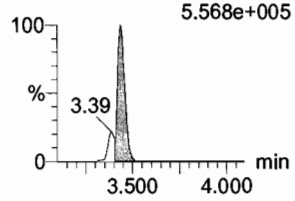
F14:MRM of 2 channels,ES-
363 > 169
PFHpA 2.960e+005
3.36
1.19e4
295612
bb



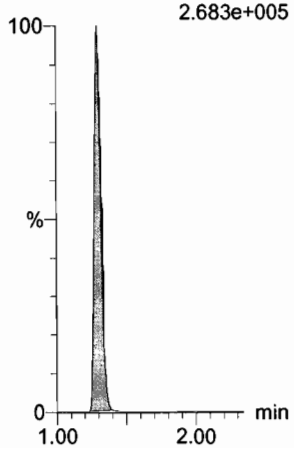
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
8.100e+005



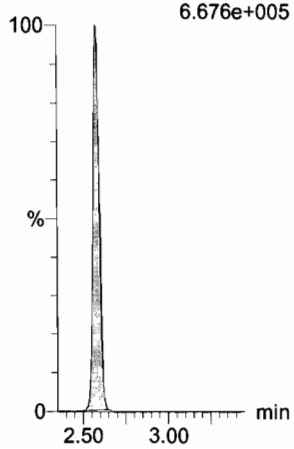
F16:MRM of 2 channels,ES-
398.9 > 99
5.568e+005



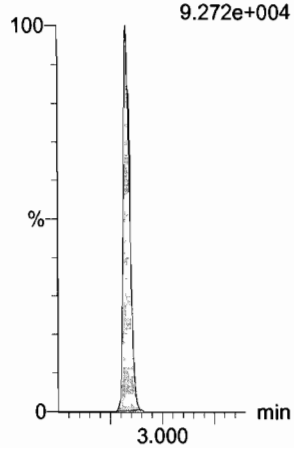
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.683e+005



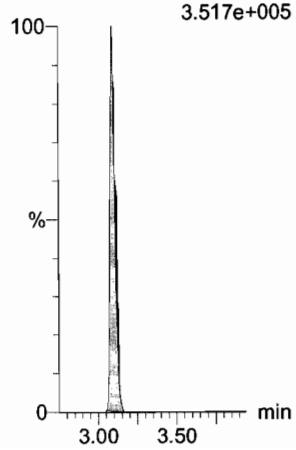
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
6.676e+005



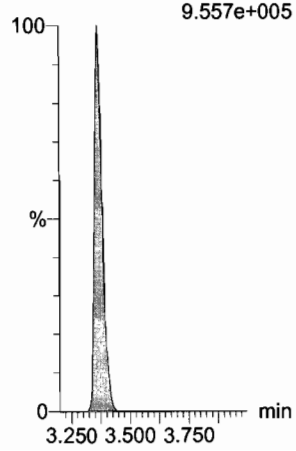
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
9.272e+004



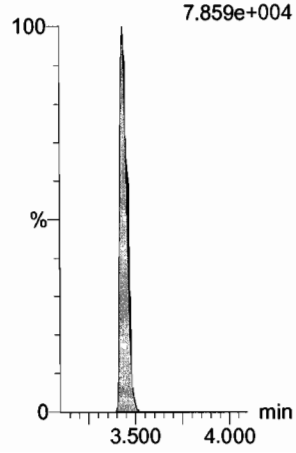
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.517e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
9.557e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
7.859e+004



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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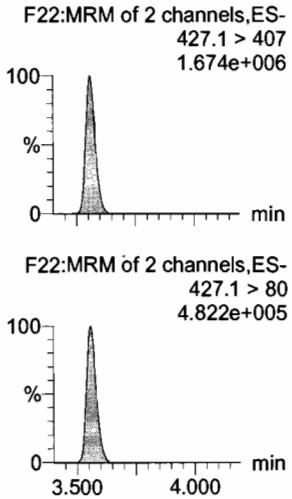
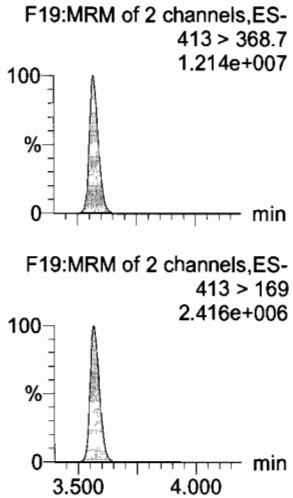
Name: 170822M1_9, Date: 22-Aug-2017, Time: 12:17:36, ID: ST170822M1-8 PFC CS5 17H2209, Description: PFC CS5 17H2209

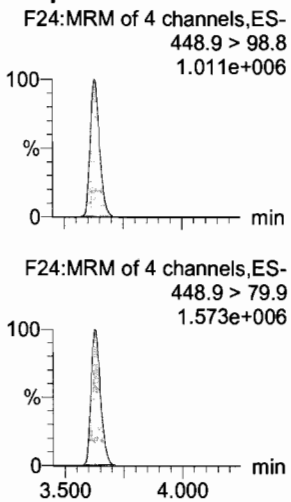
6:2 FTS



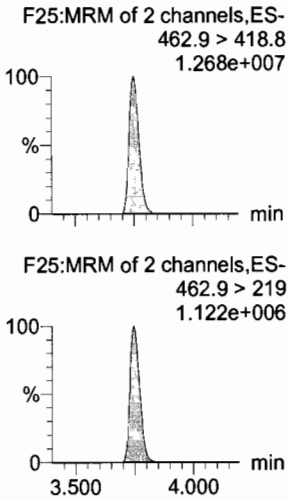
PFOA



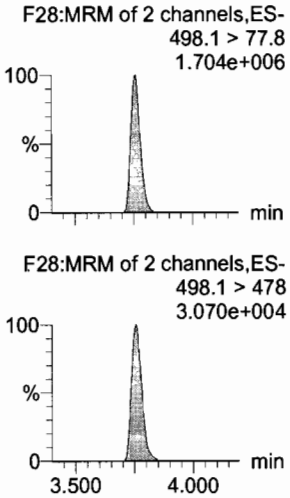
PFHpS



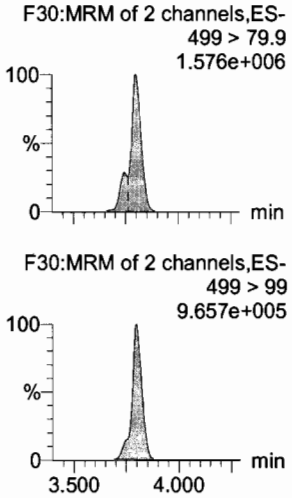
PFNA



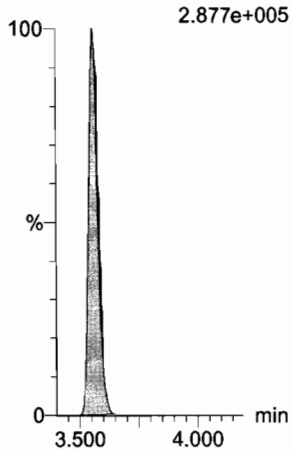
PFOSA



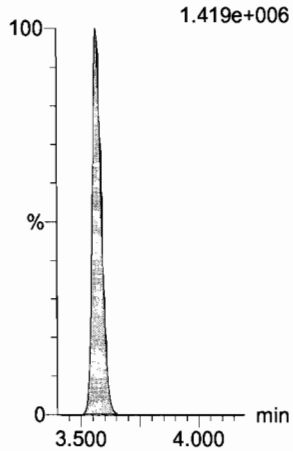
PFOS



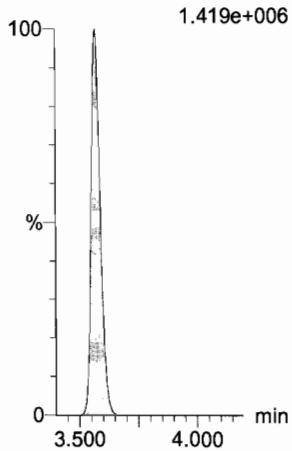
13C2-6:2 FTS



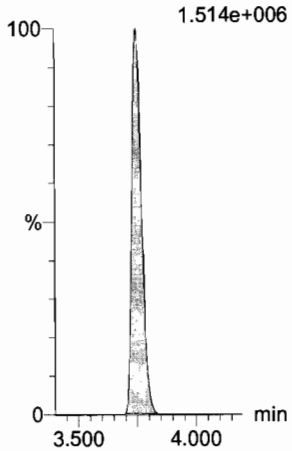
13C2-PFOA



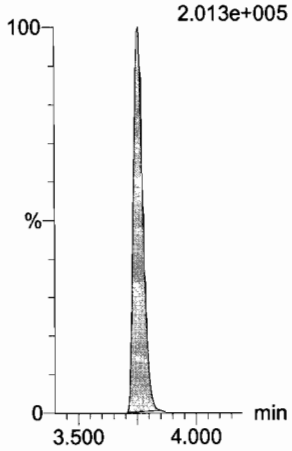
13C2-PFOA



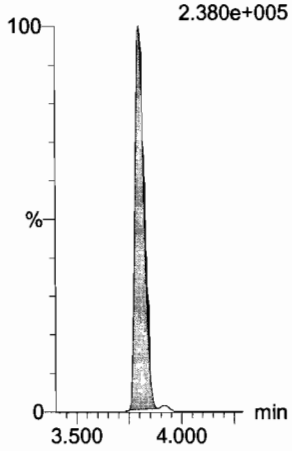
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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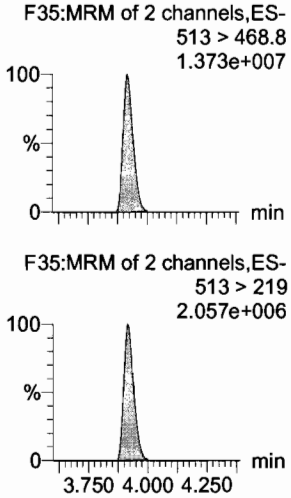
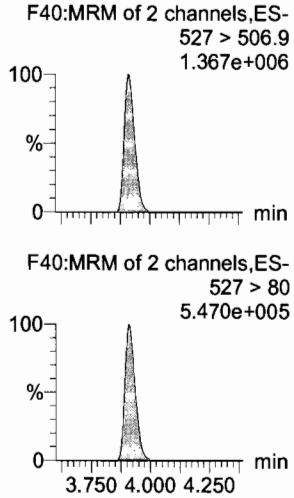
Name: 170822M1_9, Date: 22-Aug-2017, Time: 12:17:36, ID: ST170822M1-8 PFC CS5 17H2209, Description: PFC CS5 17H2209

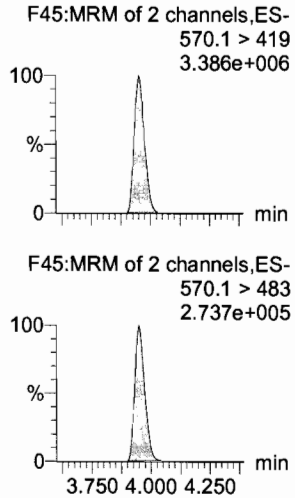
PFDA



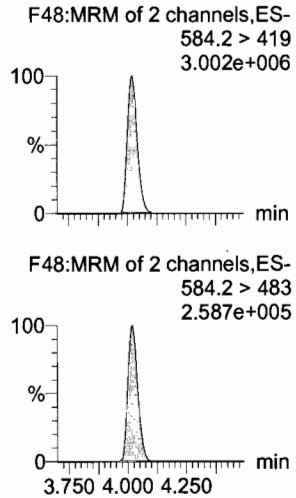
8:2 FTS



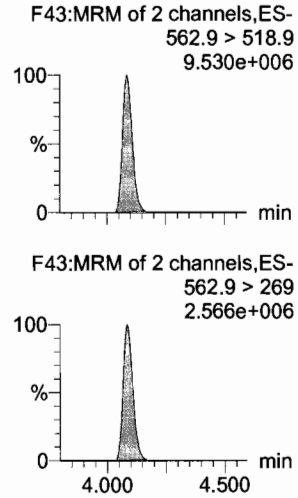
N-MeFOSAA



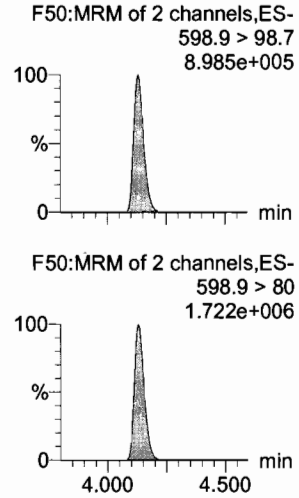
N-EtFOSAA



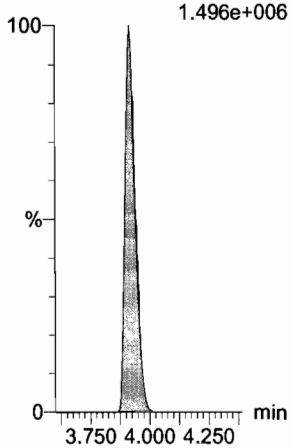
PFUnA



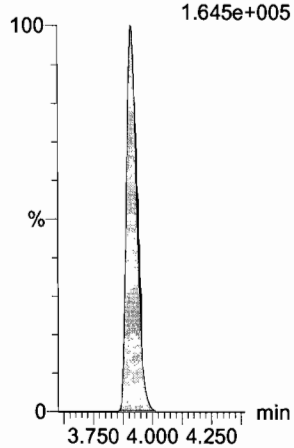
PFDS



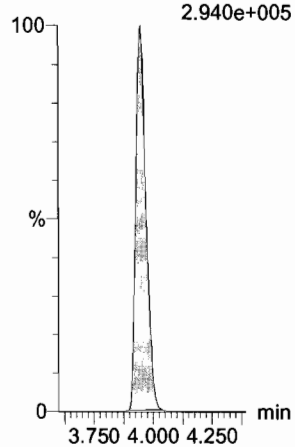
13C2-PFDA



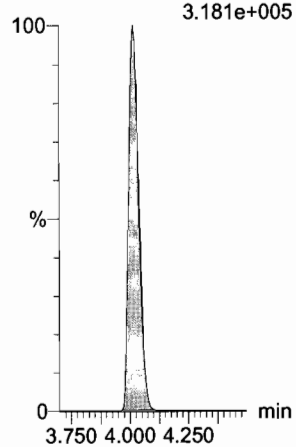
13C2-8:2 FTS



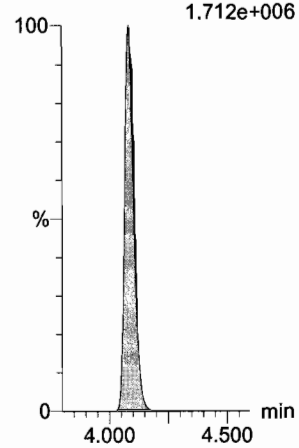
d3-N-MeFOSAA



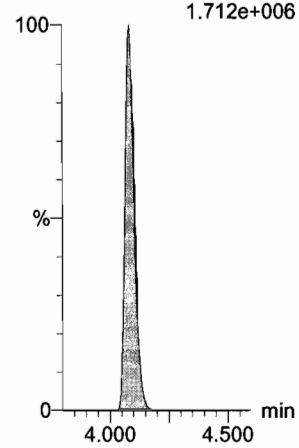
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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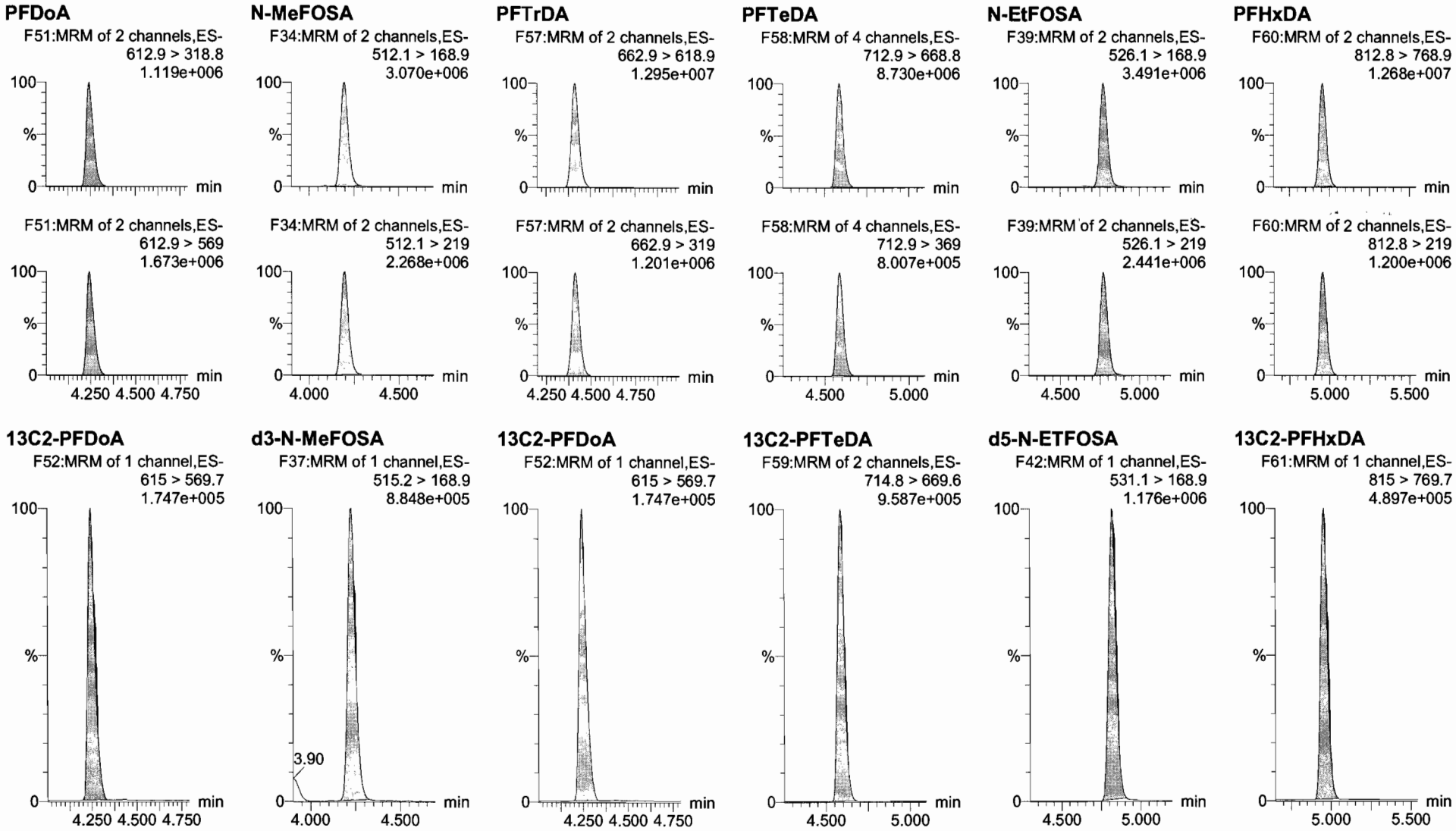
Name: 170822M1_9, Date: 22-Aug-2017, Time: 12:17:36, ID: ST170822M1-8 PFC CS5 17H2209, Description: PFC CS5 17H2209



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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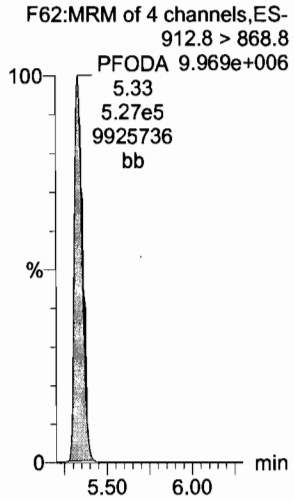
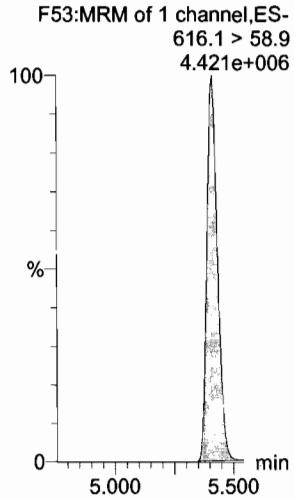
Name: 170822M1_9, Date: 22-Aug-2017, Time: 12:17:36, ID: ST170822M1-8 PFC CS5 17H2209, Description: PFC CS5 17H2209

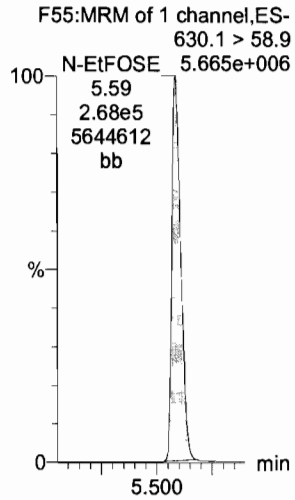
PFODA



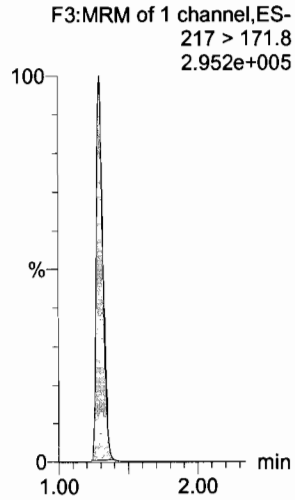
N-MeFOSE



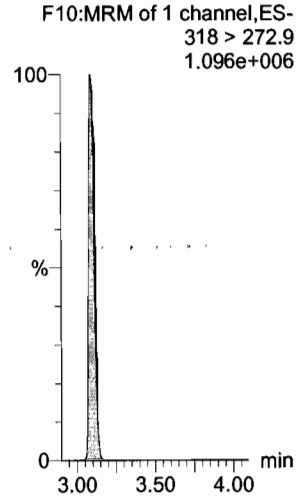
N-EtFOSE



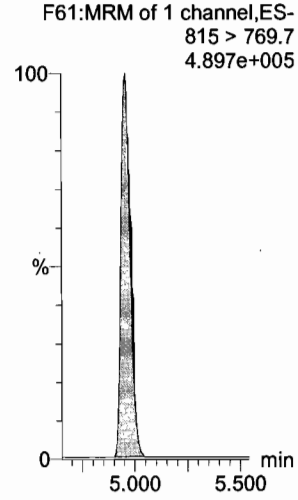
13C4-PFBA



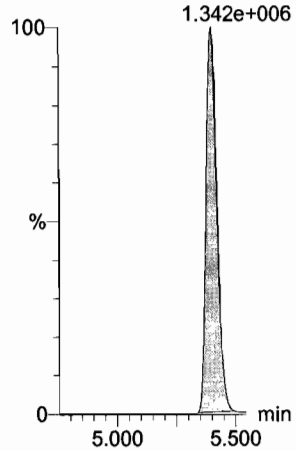
13C5-PFHxA



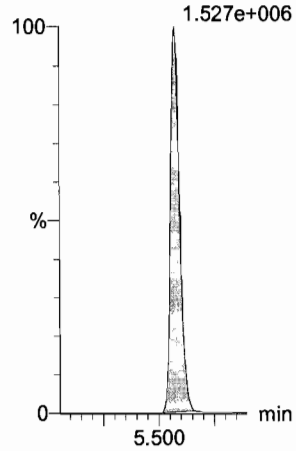
13C2-PFHxDA



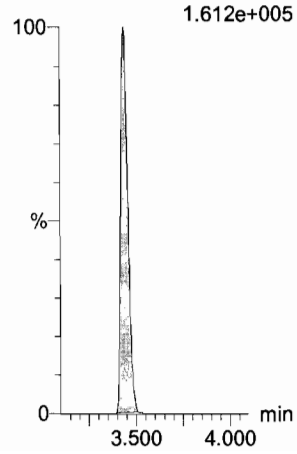
d7-N-MeFOSE



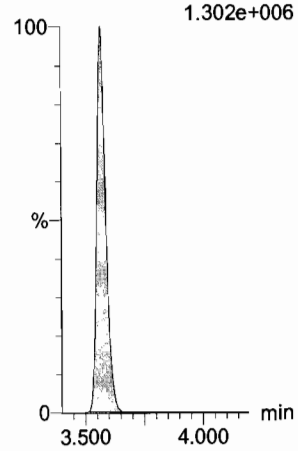
d9-N-EtFOSE



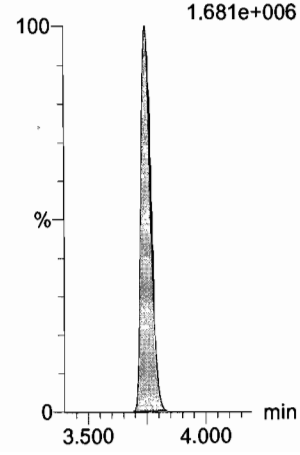
13C3-PFHxS



13C8-PFOA



13C9-PFNA



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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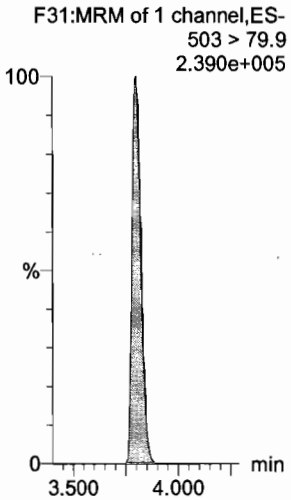
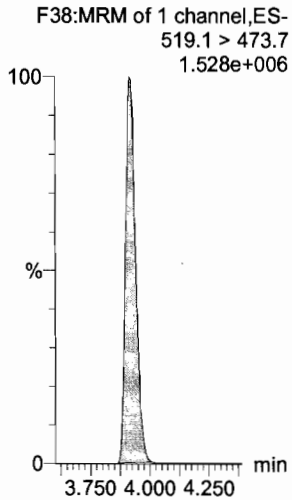
Name: 170822M1_9, Date: 22-Aug-2017, Time: 12:17:36, ID: ST170822M1-8 PFC CS5 17H2209, Description: PFC CS5 17H2209

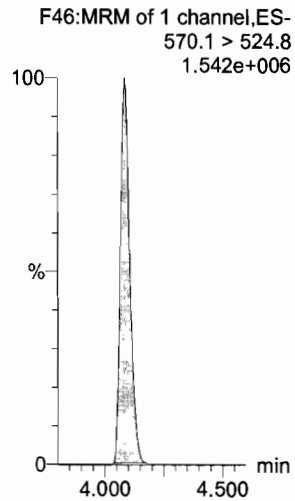
13C4-PFOS



13C6-PFDA



13C7-PFUnA



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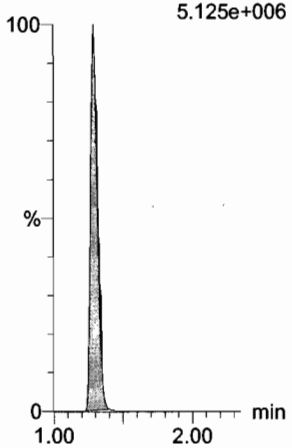
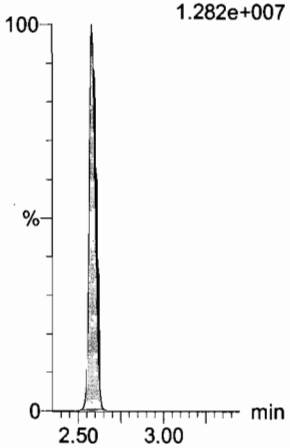
Name: 170822M1_10, Date: 22-Aug-2017, Time: 12:28:17, ID: ST170822M1-9 PFC CS6 17H2232, Description: PFC CS6 17H2232

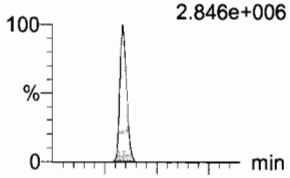
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
5.125e+006



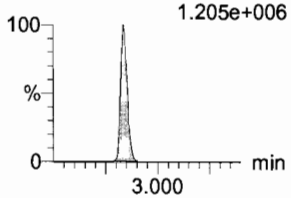
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
1.282e+007



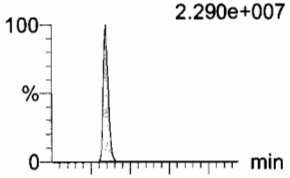
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
2.846e+006



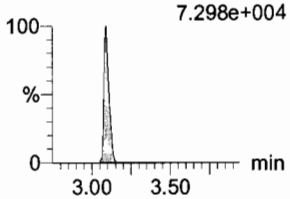
F6:MRM of 2 channels,ES-
299 > 99
1.205e+006



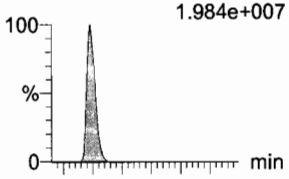
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
2.290e+007



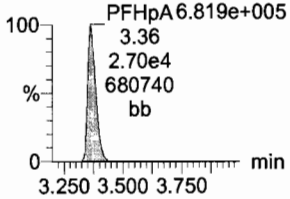
F8:MRM of 2 channels,ES-
313.2 > 119
7.298e+004



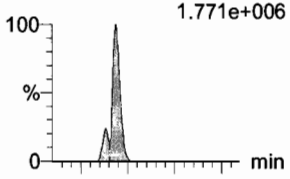
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
1.984e+007



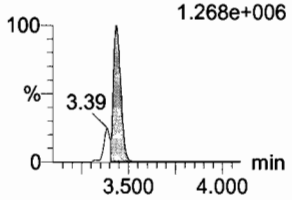
F14:MRM of 2 channels,ES-
363 > 169
PFHpA 6.819e+005
3.36
2.70e4
680740
bb



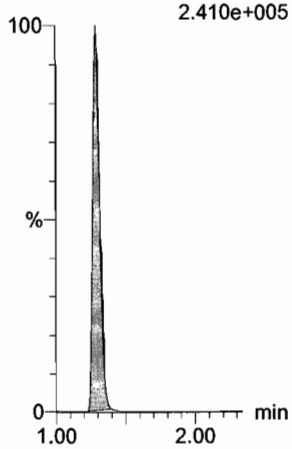
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
1.771e+006



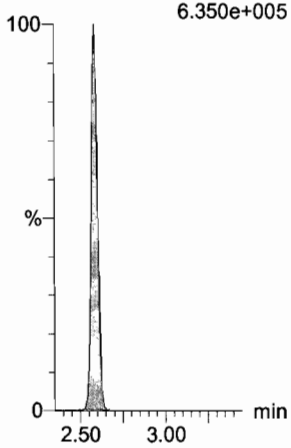
F16:MRM of 2 channels,ES-
398.9 > 99
1.268e+006



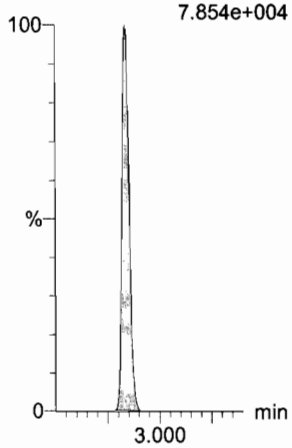
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.410e+005



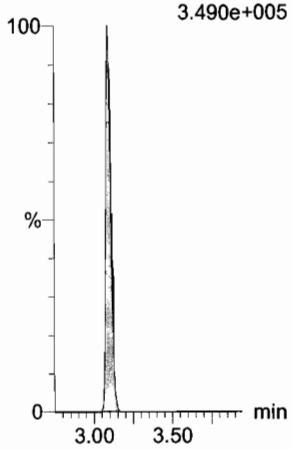
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
6.350e+005



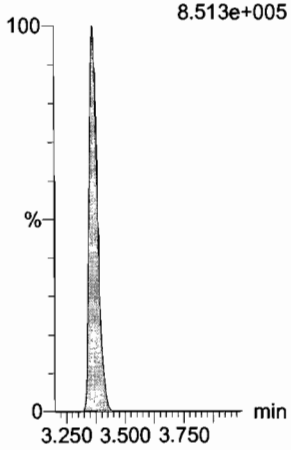
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
7.854e+004



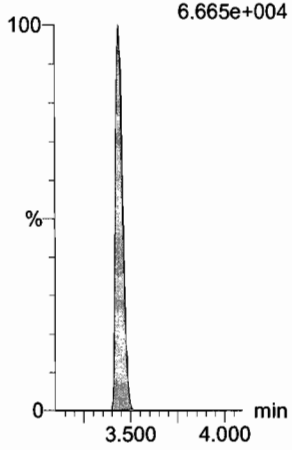
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.490e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
8.513e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
6.665e+004



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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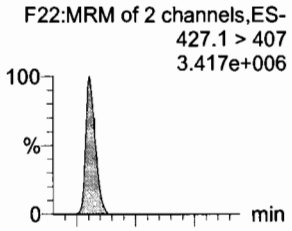
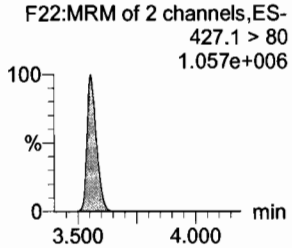
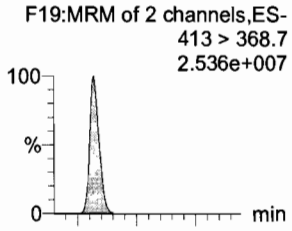
Name: 170822M1_10, Date: 22-Aug-2017, Time: 12:28:17, ID: ST170822M1-9 PFC CS6 17H2232, Description: PFC CS6 17H2232

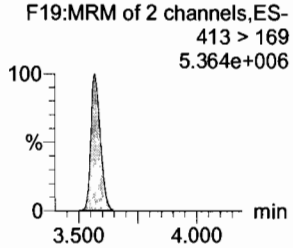
6:2 FTS



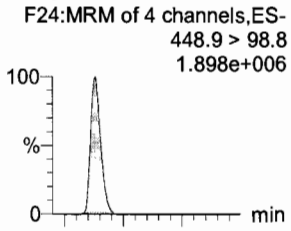


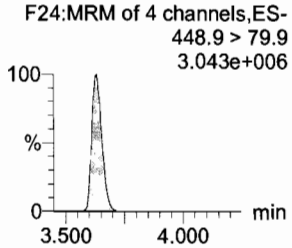
PFOA



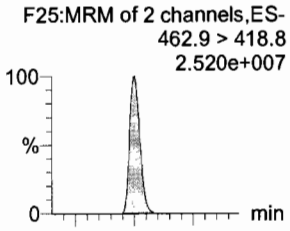


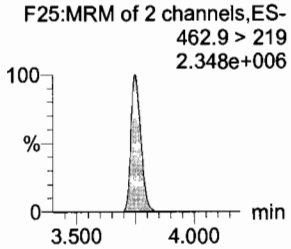
PFHpS



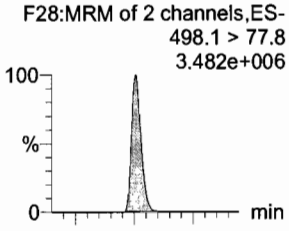


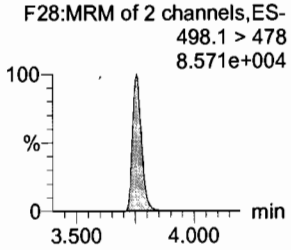
PFNA



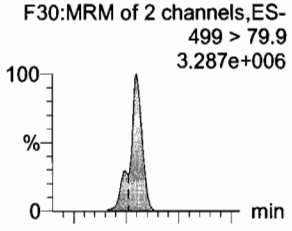


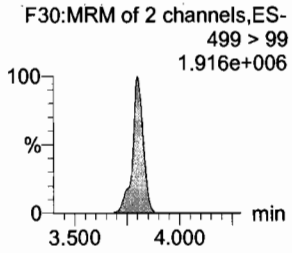
PFOSA



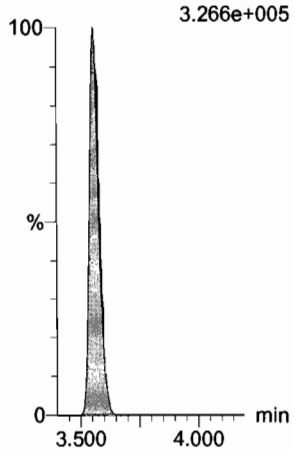


PFOS

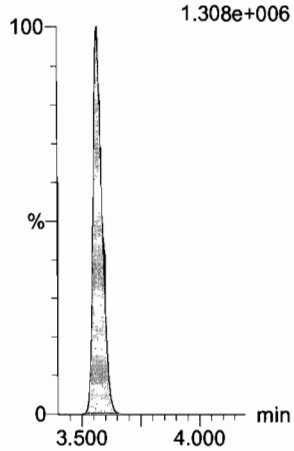




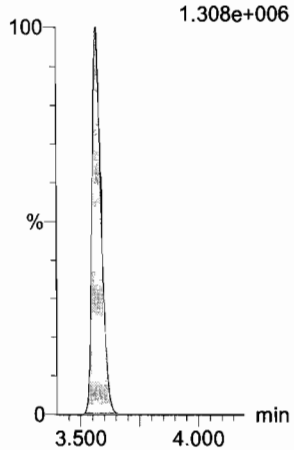
13C2-6:2 FTS



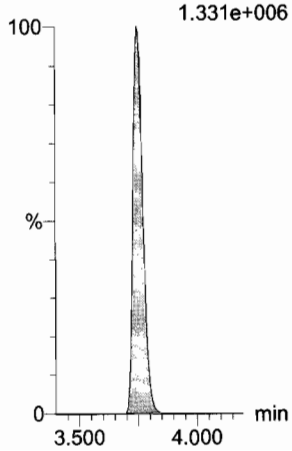
13C2-PFOA



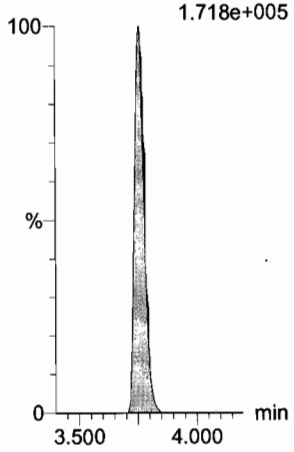
13C2-PFOA



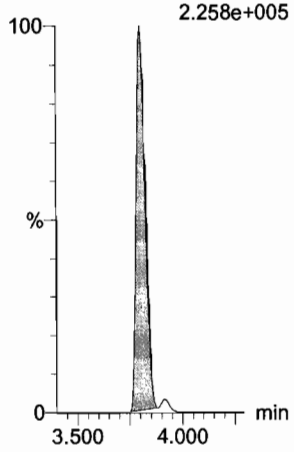
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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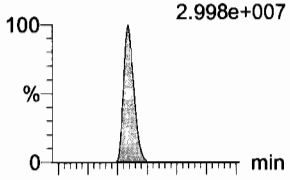
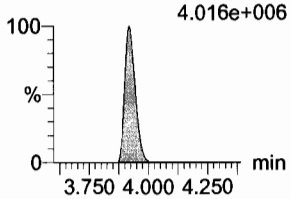
Name: 170822M1_10, Date: 22-Aug-2017, Time: 12:28:17, ID: ST170822M1-9 PFC CS6 17H2232, Description: PFC CS6 17H2232

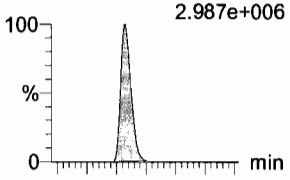
PFDA
F35:MRM of 2 channels,ES-
513 > 468.8
2.998e+007



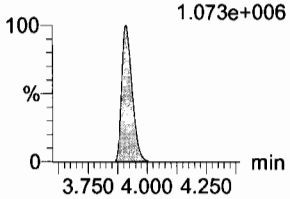
F35:MRM of 2 channels,ES-
513 > 219
4.016e+006



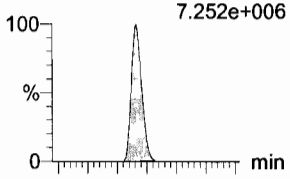
8:2 FTS
F40:MRM of 2 channels,ES-
527 > 506.9
2.987e+006



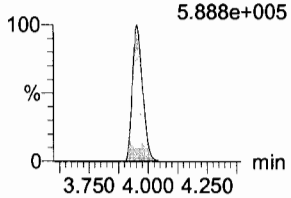
F40:MRM of 2 channels,ES-
527 > 80
1.073e+006



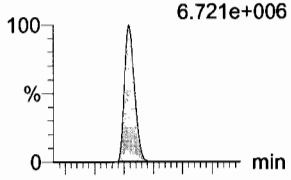
N-MeFOSAA
F45:MRM of 2 channels,ES-
570.1 > 419
7.252e+006



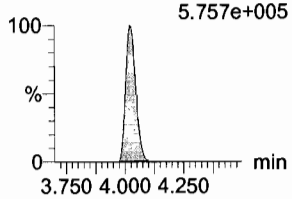
F45:MRM of 2 channels,ES-
570.1 > 483
5.888e+005



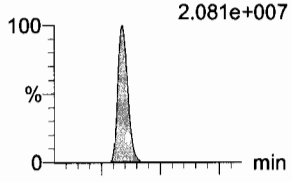
N-EtFOSAA
F48:MRM of 2 channels,ES-
584.2 > 419
6.721e+006



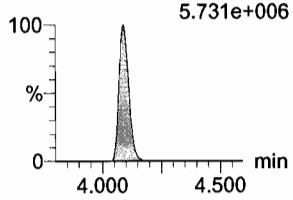
F48:MRM of 2 channels,ES-
584.2 > 483
5.757e+005



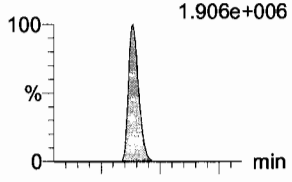
PFUnA
F43:MRM of 2 channels,ES-
562.9 > 518.9
2.081e+007



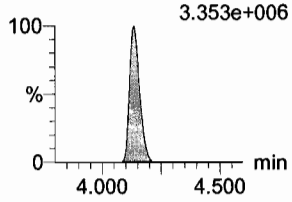
F43:MRM of 2 channels,ES-
562.9 > 269
5.731e+006



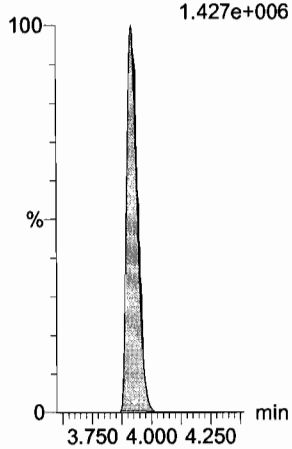
PFDS
F50:MRM of 2 channels,ES-
598.9 > 98.7
1.906e+006



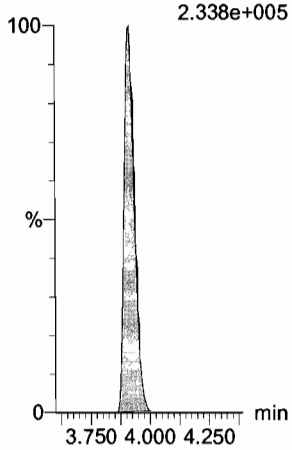
F50:MRM of 2 channels,ES-
598.9 > 80
3.353e+006



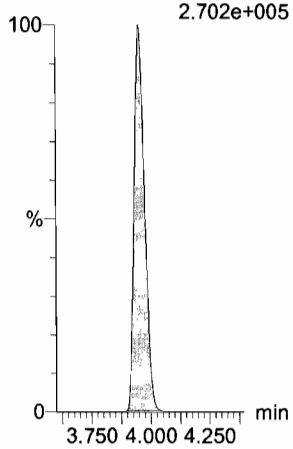
13C2-PFDA
F36:MRM of 1 channel,ES-
515.1 > 469.9
1.427e+006



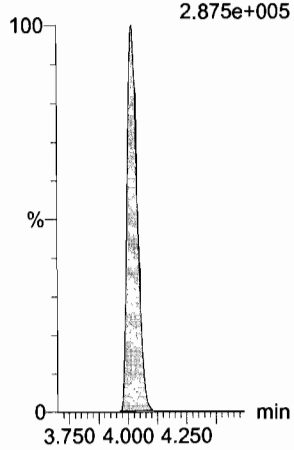
13C2-8:2 FTS
F41:MRM of 1 channel,ES-
529.1 > 508.7
2.338e+005



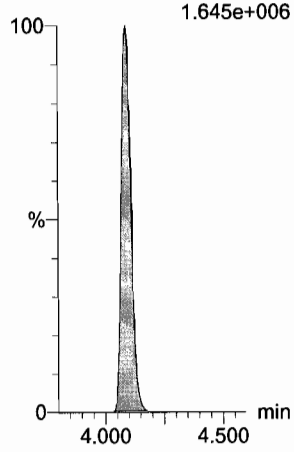
d3-N-MeFOSAA
F47:MRM of 1 channel,ES-
573.3 > 419
2.702e+005



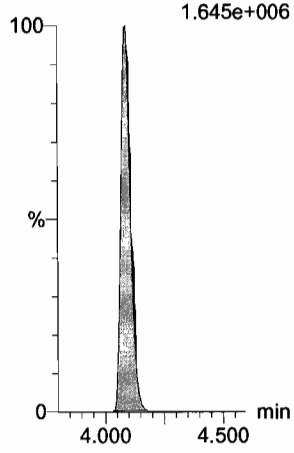
d5-N-EtFOSAA
F49:MRM of 1 channel,ES-
589.3 > 419
2.875e+005



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.645e+006



13C2-PFUnA
F44:MRM of 1 channel,ES-
565 > 519.8
1.645e+006



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Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
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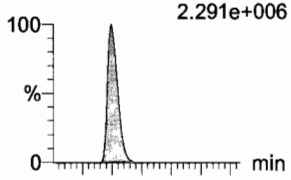
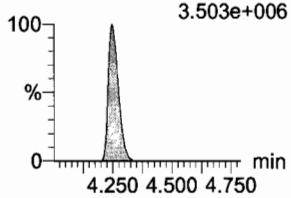
Name: 170822M1_10, Date: 22-Aug-2017, Time: 12:28:17, ID: ST170822M1-9 PFC CS6 17H2232, Description: PFC CS6 17H2232

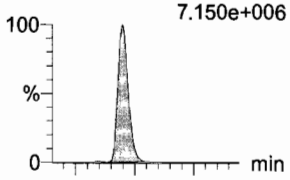
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
2.291e+006



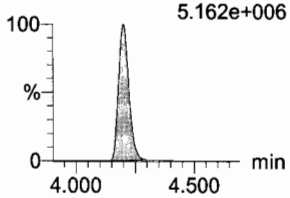
F51:MRM of 2 channels,ES-
612.9 > 569
3.503e+006



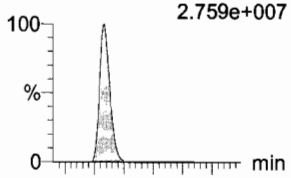
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
7.150e+006



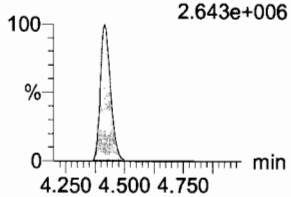
F34:MRM of 2 channels,ES-
512.1 > 219
5.162e+006



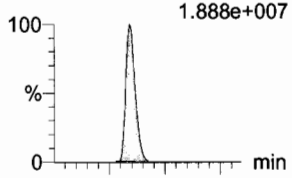
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
2.759e+007



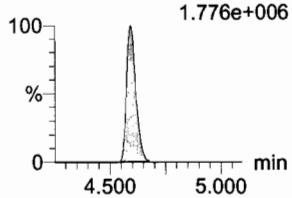
F57:MRM of 2 channels,ES-
662.9 > 319
2.643e+006



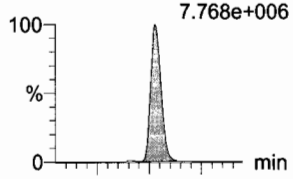
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
1.888e+007



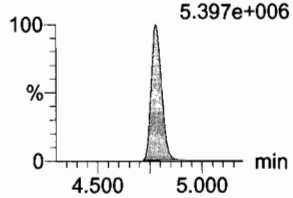
F58:MRM of 4 channels,ES-
712.9 > 369
1.776e+006



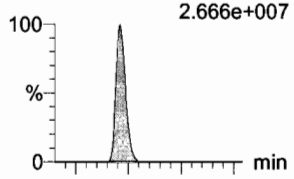
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
7.768e+006



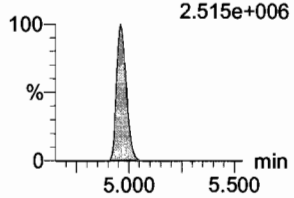
F39:MRM of 2 channels,ES-
526.1 > 219
5.397e+006



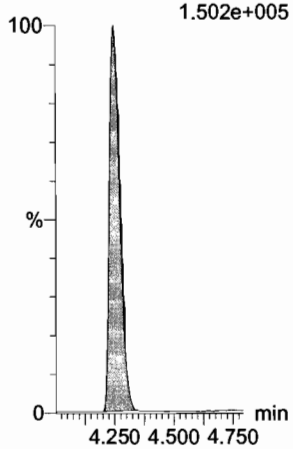
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
2.666e+007



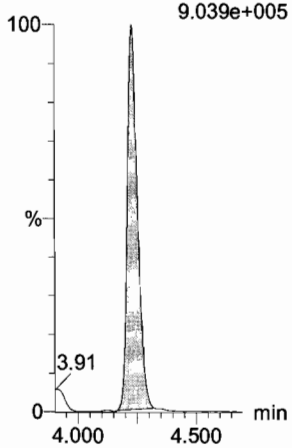
F60:MRM of 2 channels,ES-
812.8 > 219
2.515e+006



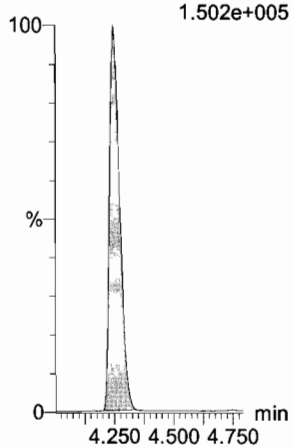
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.502e+005



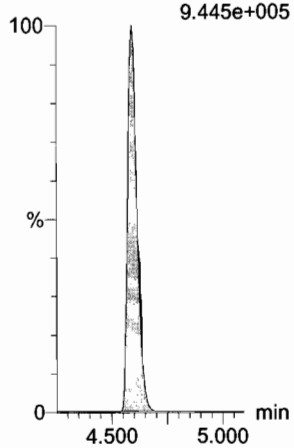
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
9.039e+005



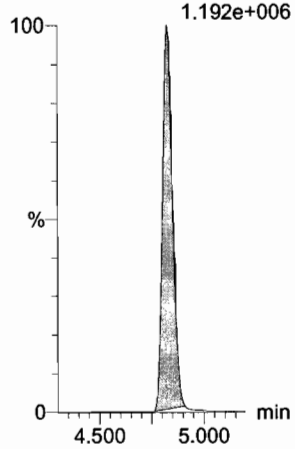
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.502e+005



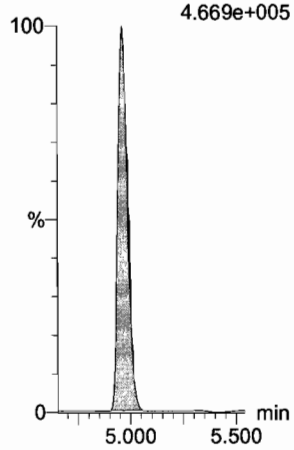
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
9.445e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
1.192e+006



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.669e+005

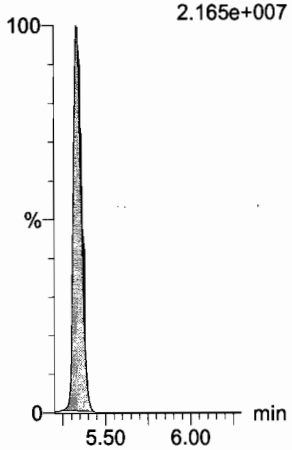


Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

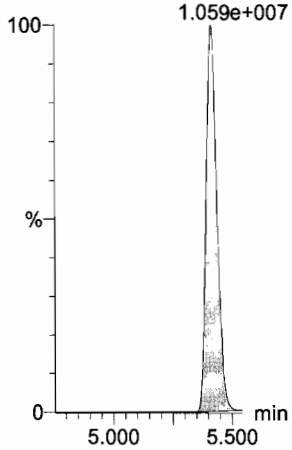
Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_10, Date: 22-Aug-2017, Time: 12:28:17, ID: ST170822M1-9 PFC CS6 17H2232, Description: PFC CS6 17H2232

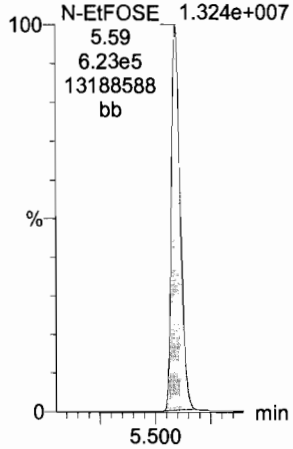
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
2.165e+007



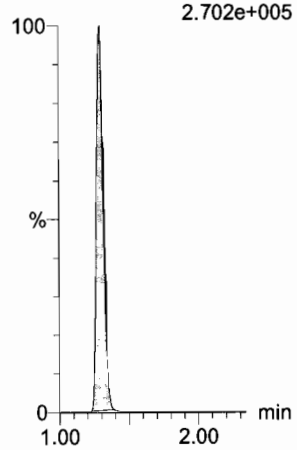
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
1.059e+007



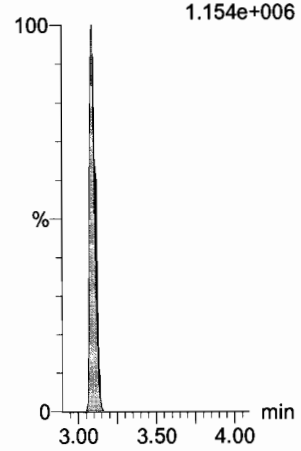
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
1.324e+007



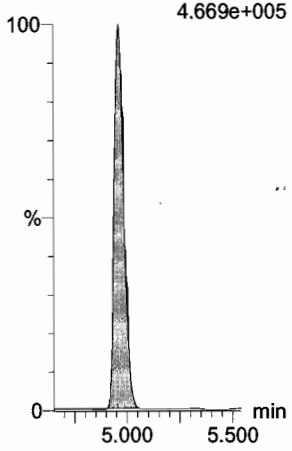
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.702e+005



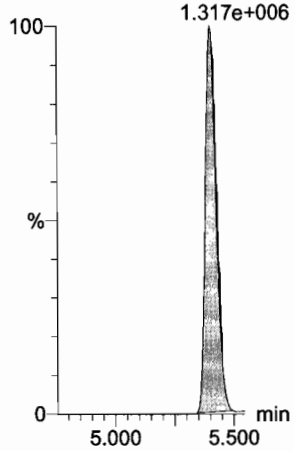
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.154e+006



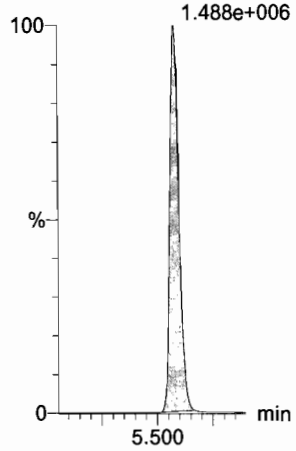
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.669e+005



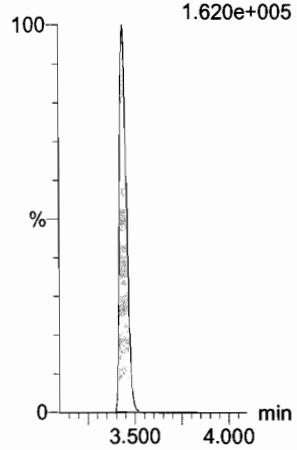
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
1.317e+006



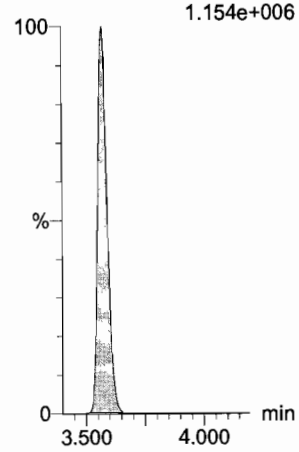
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
1.488e+006



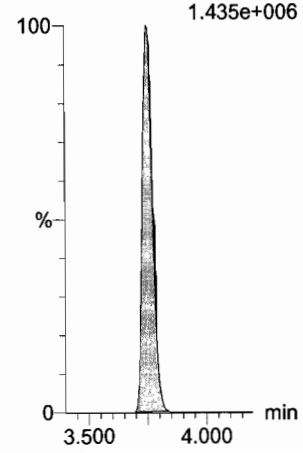
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.620e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.154e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.435e+006



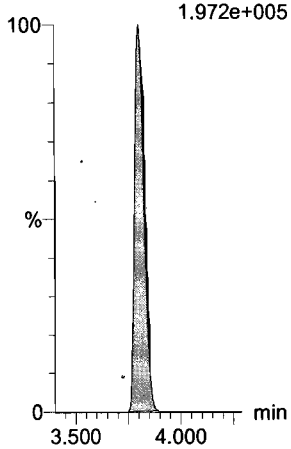
Dataset: U:\Q4.PRO\results\170822M1\170822M1-CRV.qld

Last Altered: Tuesday, August 22, 2017 13:46:03 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 13:48:42 Pacific Daylight Time

Name: 170822M1_10, Date: 22-Aug-2017, Time: 12:28:17, ID: ST170822M1-9 PFC CS6 17H2232, Description: PFC CS6 17H2232

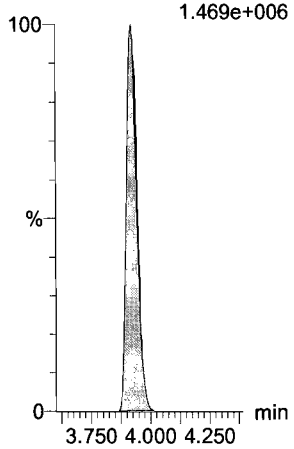
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.972e+005



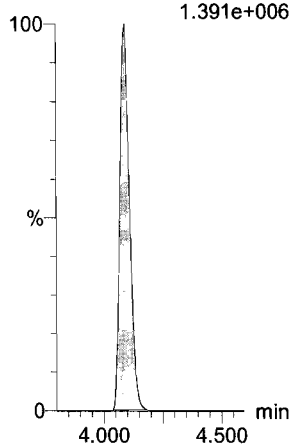
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.469e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.391e+006



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN945 SCN960**
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-13.qld

Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
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(A) Not included in SS.

AC 8/22/17

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	1.26e4	1.34e4		1.26	1.30	11.8	10.4	104.2
2	2	PFPeA	263.1 > 218.9	2.08e4	2.52e4		2.53	2.59	10.3	10.2	102.3
3	3	PFBS	299 > 79.7	4.32e3	3.08e3		2.89	2.84	17.5	9.89	98.9
4	4	PFHxA	313.2 > 268.9	3.59e4	1.15e4		3.14	3.09	15.6	11.2	112.4
5	5	PFHpA	363 > 318.9	3.42e4	3.23e4		3.40	3.37	13.2	11.2	111.6
6	6	PFHxS	398.9 > 79.6	3.82e3	2.90e3		3.41	3.44	16.4	10.3	102.8
7	7	6:2 FTS	427.1 > 407	8.32e3	1.02e4		3.59	3.56	10.2	9.61	96.1
8	8	PFOA	413 > 368.7	5.24e4	5.81e4		3.59	3.57	11.3	10.9	109.4
9	9	PFHpS	448.9 > 98.8	4.56e3	5.81e4		3.60	3.63	0.981	11.4	113.5
10	10	PFNA	462.9 > 418.8	6.34e4	6.99e4		3.75	3.75	11.3	11.0	110.3
11	11	PFOSA	498.1 > 77.8	8.54e3	8.86e3		3.79	3.76	12.0	11.6	116.2
12	12	PFOS	499 > 79.9	9.03e3	1.18e4		3.80	3.80	9.54	8.84	88.4
13	13	PFDA	513 > 468.8	6.84e4	6.96e4		3.96	3.92	12.3	11.3	112.9
14	14	8:2 FTS	527 > 506.9	7.64e3	6.41e3		3.95	3.92	14.9	11.0	110.4
15	15	N-MeFOSAA	570.1 > 419	1.66e4	1.30e4		3.92	3.95	208	11.0	110.2
16	16	N-EtFOSAA	584.2 > 419	1.43e4	1.35e4		3.97	4.02	173	11.3	113.1
17	17	PFUnA	562.9 > 518.9	4.67e4	7.44e4		4.12	4.09	7.85	9.84	98.4
18	18	PFDS	598.9 > 98.7	4.48e3	7.44e4		4.17	4.14	0.753	9.49	94.9
19	19	PFDoA	612.9 > 318.8	4.97e3	7.21e3		4.28	4.25	8.62	10.3	102.8
20	20	N-MeFOSA	512.1 > 168.9		3.88e4		4.14				(A)
21	21	PFTrDA	662.9 > 618.9	6.61e4	7.21e3		4.45	4.42	114	11.9	118.5
22	22	PFTeDA	712.9 > 668.8	4.17e4	4.14e4		4.54	4.59	12.6	10.4	104.1
23	23	N-EtFOSA	526.1 > 168.9		5.36e4		4.71				(A)
24	24	PFHxDA	812.8 > 768.9	5.97e2	2.21e4		5.03	4.96	0.135		
25	25	PFODA	912.8 > 868.8	1.37e2	2.21e4		5.37	5.33	0.0310		
26	26	N-MeFOSE	616.1 > 58.9		6.12e4		5.26				
27	27	N-EtFOSE	630.1 > 58.9		6.20e4		5.58				
28	28	13C3-PFBA	216.1 > 171.8	1.34e4	1.48e4	0.915	1.26	1.30	11.3	12.3	98.8
29	29	13C3-PFPeA	266 > 221.8	2.52e4	3.89e4	0.256	2.53	2.58	3.24	12.7	101.3
30	30	13C3-PFBS	302 > 98.8	3.08e3	3.89e4	0.032	2.89	2.84	0.396	12.5	100.3
31	31	13C2-PFHxA	315 > 269.8	1.15e4	3.89e4	0.304	3.14	3.09	1.48	4.89	97.7

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Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-13.qld

Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
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Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	3.23e4	3.89e4	0.341	3.40	3.37	4.16	12.2	97.4
33	33	18O2-PFHxS	403 > 102.6	2.90e3	6.86e3	0.445	3.41	3.44	5.29	11.9	95.0
34	34	13C2-6:2 FTS	429.1 > 408.9	1.02e4	5.43e4	0.194	3.59	3.56	2.34	12.1	96.6
35	35	13C2-PFOA	414.9 > 369.7	5.81e4	5.43e4	1.081	3.59	3.57	13.4	12.4	98.8
36	36	13C5-PFNA	468.2 > 422.9	6.99e4	7.83e4	0.908	3.75	3.75	11.2	12.3	98.3
37	37	13C8-PFOSA	506.1 > 77.7	8.86e3	7.16e4	0.130	3.79	3.76	1.55	11.9	95.3
38	38	13C8-PFOS	507 > 79.9	1.18e4	1.06e4	1.076	3.77	3.80	13.9	12.9	103.3
39	39	13C2-PFDA	515.1 > 469.9	6.96e4	6.91e4	1.002	3.96	3.92	12.6	12.6	100.4
40	40	13C2-8:2 FTS	529.1 > 508.7	6.41e3	6.91e4	0.110	3.95	3.92	1.16	10.5	84.0
41	41	d3-N-MeFOSAA	573.3 > 419	1.30e4	7.16e4	0.016	3.99	3.95	2.27	144	88.7
42	42	d5-N-EtFOSAA	589.3 > 419	1.35e4	7.16e4	0.015	4.06	4.02	2.35	152	93.4
43	43	13C2-PFUnA	565 > 519.8	7.44e4	7.16e4	1.045	4.12	4.09	13.0	12.4	99.4
44	44	13C2-PFDoA	615 > 569.7	7.21e3	7.16e4	0.101	4.29	4.25	1.26	12.5	100.1
45	45	d3-N-MeFOSA	515.2 > 168.9	3.88e4	7.16e4	0.048	4.19	4.23	6.77	142	94.7
46	46	13C2-PFTeDA	714.8 > 669.6	4.14e4	7.16e4	0.583	4.54	4.59	7.23	12.4	99.2
47	47	d5-N-ETFOSA	531.1 > 168.9	5.36e4	7.16e4	0.067	4.76	4.82	9.35	139	92.7
48	48	13C2-PFHxDA	815 > 769.7	2.21e4	7.16e4	0.774	5.03	4.96	3.87	4.99	99.9
49	49	d7-N-MeFOSE	623.1 > 58.9	6.12e4	7.16e4	0.074	5.26	5.40	10.7	145	96.4
50	50	d9-N-EtFOSE	639.2 > 58.8	6.20e4	7.16e4	0.075	5.58	5.58	10.8	144	96.0
51	51	13C4-PFBA	217 > 171.8	1.48e4	1.48e4	1.000	1.26	1.30	12.5	12.5	100.0
52	52	13C5-PFHxA	318 > 272.9	3.89e4	3.89e4	1.000	3.14	3.09	5.00	5.00	100.0
53	53	13C3-PFHxS	401.9 > 79.9	6.86e3	6.86e3	1.000	3.41	3.44	12.5	12.5	100.0
54	54	13C8-PFOA	421.3 > 376	5.43e4	5.43e4	1.000	3.55	3.57	12.5	12.5	100.0
55	55	13C9-PFNA	472.2 > 426.9	7.83e4	7.83e4	1.000	3.79	3.75	12.5	12.5	100.0
56	56	13C4-PFOS	503 > 79.9	1.06e4	1.06e4	1.000	3.77	3.80	12.5	12.5	100.0
57	57	13C6-PFDA	519.1 > 473.7	6.91e4	6.91e4	1.000	3.95	3.92	12.5	12.5	100.0
58	58	13C7-PFUnA	570.1 > 524.8	7.16e4	7.16e4	1.000	4.12	4.09	12.5	12.5	100.0

Quantify Totals Report MassLynx MassLynx V4.1 SCN945 SCN960
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170822M1\170822M1-13.qld

Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 14:01:36 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3	PFBS	299 > 79.7	2.84	4317.887	3079.043	17.529	bb	9.89

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6	PFHxS	398.9 > 79.6	3.44	3815.538	2901.769	16.436	MM	10.3

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8	PFOA	413 > 368.7	3.57	52410.016	58070.355	11.282	bb	10.9

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12	PFOS	499 > 79.9	3.80	9025.711	11826.841	9.539	MM	8.84

Total N-Me-FOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15	N-MeFOSAA	570.1 > 419	3.95	16617.002	12991.441	207.849	bb	11.0

Total N-EtFOSAA

	#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	16	N-EtFOSAA	584.2 > 419	4.02	14327.023	13475.448	172.769	bb	11.3

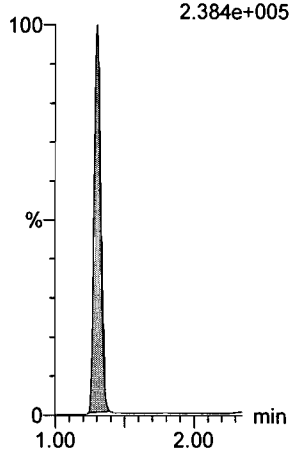
Dataset: U:\Q4.PRO\results\170822M1\170822M1-13.qld

Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 14:01:36 Pacific Daylight Time

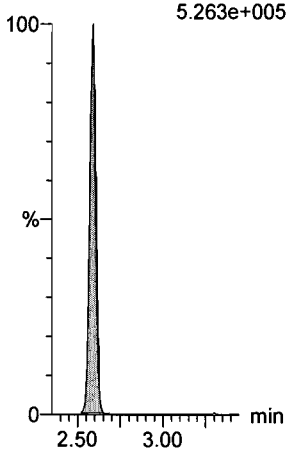
Method: U:\Q4.PRO\MethDB\PFAS_FULL_8-22-17.mdb 22 Aug 2017 13:30:47
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

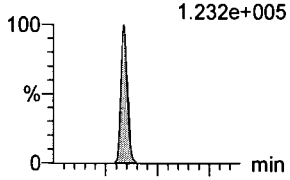
PFBA
F1:MRM of 2 channels,ES-
213.0 > 168.8
2.384e+005



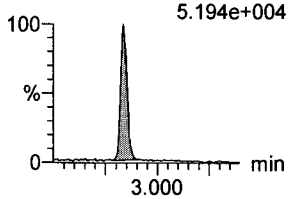
PFPeA
F4:MRM of 1 channel,ES-
263.1 > 218.9
5.263e+005



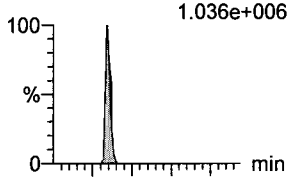
PFBS
F6:MRM of 2 channels,ES-
299 > 79.7
1.232e+005



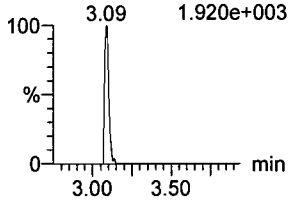
F6:MRM of 2 channels,ES-
299 > 99
5.194e+004



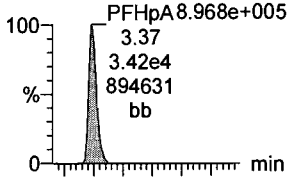
PFHxA
F8:MRM of 2 channels,ES-
313.2 > 268.9
1.036e+006



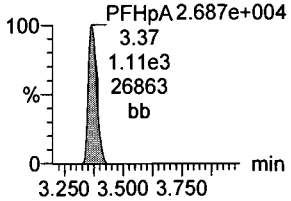
F8:MRM of 2 channels,ES-
313.2 > 119
1.920e+003



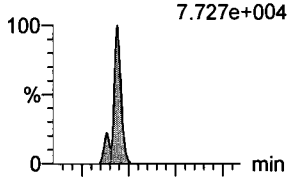
PFHpA
F14:MRM of 2 channels,ES-
363 > 318.9
PFHpA 8.968e+005
3.37
3.42e4
894631
bb



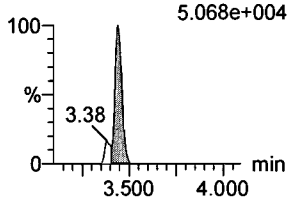
F14:MRM of 2 channels,ES-
363 > 169
PFHpA 2.687e+004
3.37
1.11e3
26863
bb



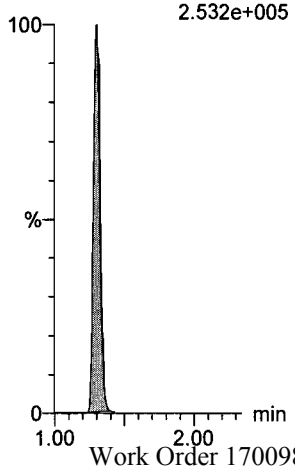
PFHxS
F16:MRM of 2 channels,ES-
398.9 > 79.6
7.727e+004



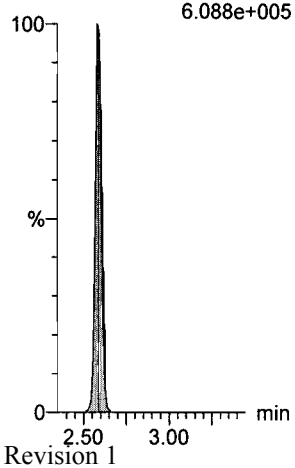
F16:MRM of 2 channels,ES-
398.9 > 99
5.068e+004



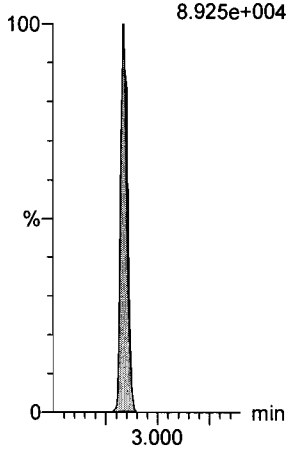
13C3-PFBA
F2:MRM of 1 channel,ES-
216.1 > 171.8
2.532e+005



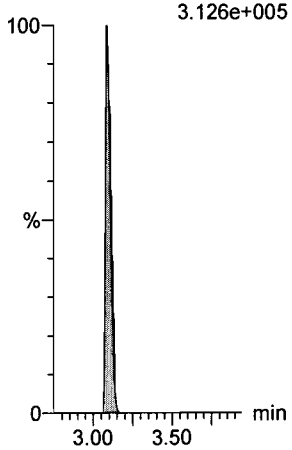
13C3-PFPeA
F5:MRM of 1 channel,ES-
266 > 221.8
6.088e+005



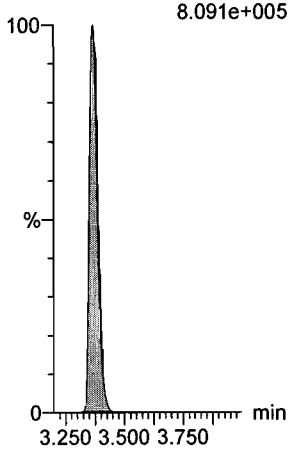
13C3-PFBS
F7:MRM of 1 channel,ES-
302 > 98.8
8.925e+004



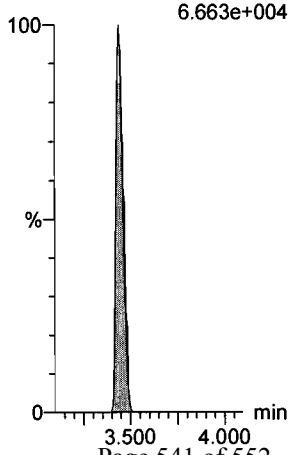
13C2-PFHxA
F9:MRM of 1 channel,ES-
315 > 269.8
3.126e+005



13C4-PFHpA
F15:MRM of 1 channel,ES-
367.2 > 321.8
8.091e+005



18O2-PFHxS
F18:MRM of 1 channel,ES-
403 > 102.6
6.663e+004

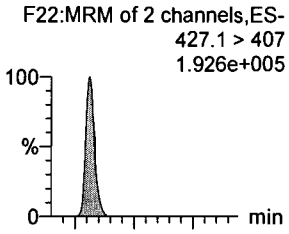


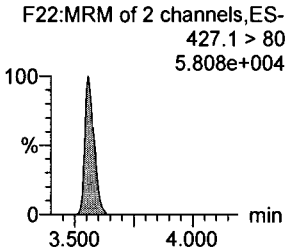
Dataset: U:\Q4.PRO\results\170822M1\170822M1-13.qld

Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 14:01:36 Pacific Daylight Time

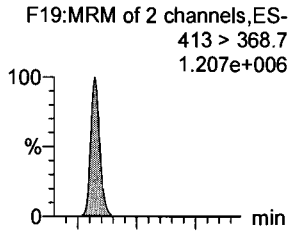
Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

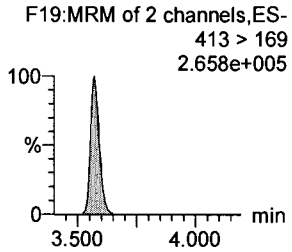
6:2 FTS



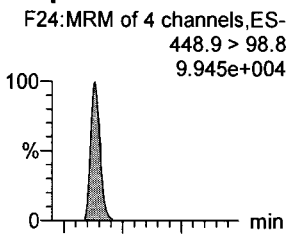


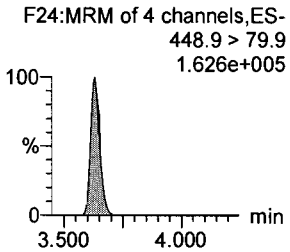
PFOA





PFHpS





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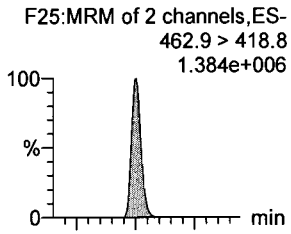
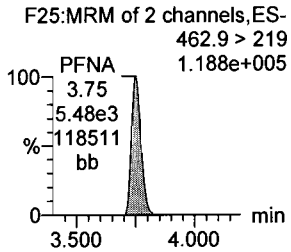
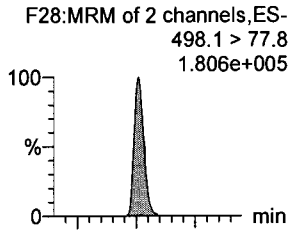
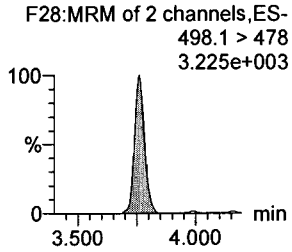


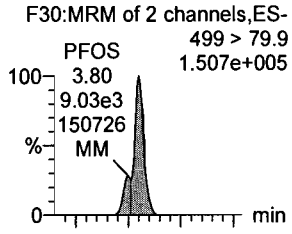


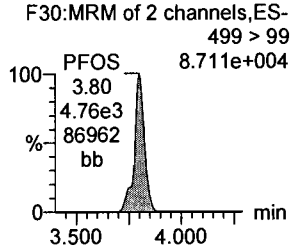
PFOSA



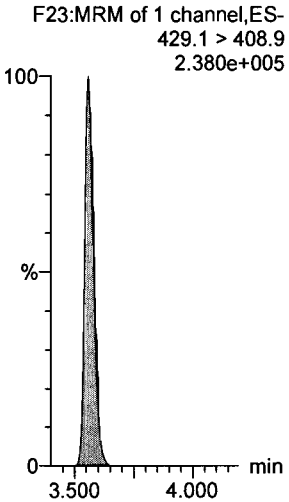


PFOS

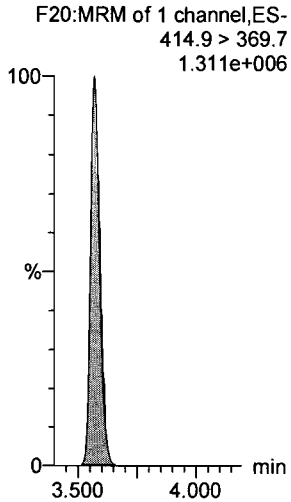




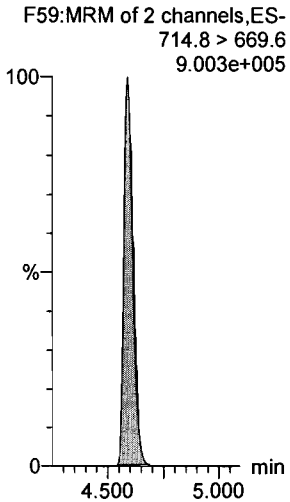
13C2-6:2 FTS



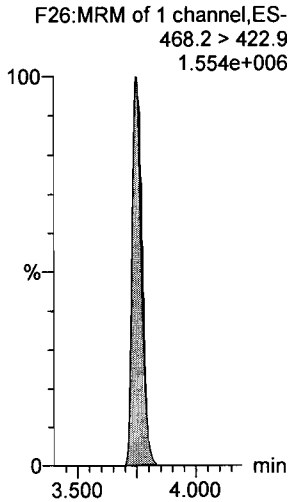
13C2-PFOA



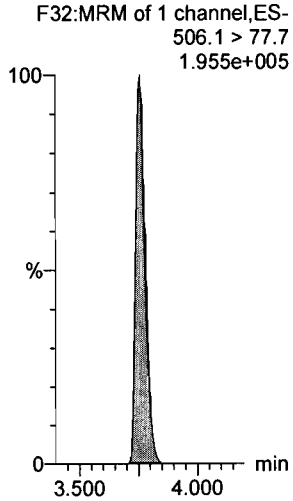
13C2-PFTeDA



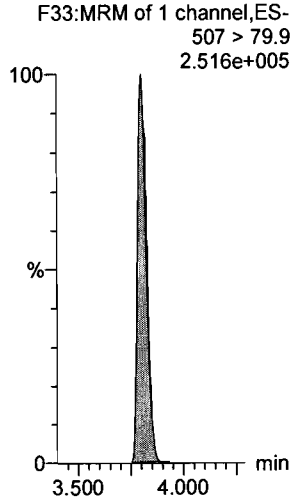
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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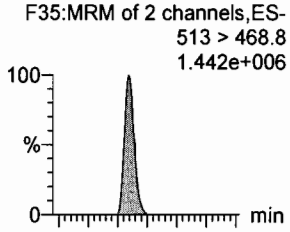
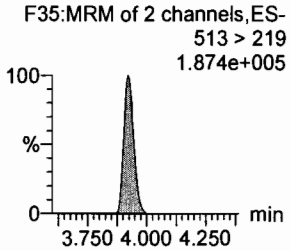
Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 14:01:36 Pacific Daylight Time

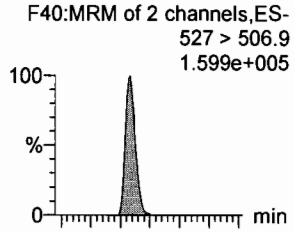
Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

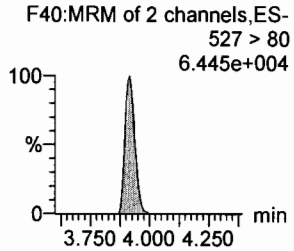
PFDA



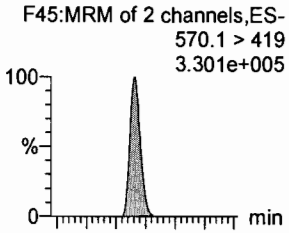


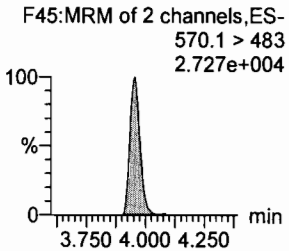
8:2 FTS



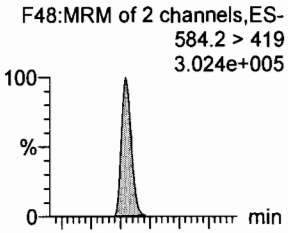


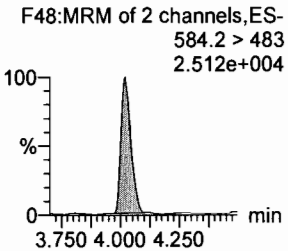
N-MeFOSAA



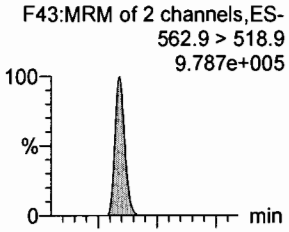


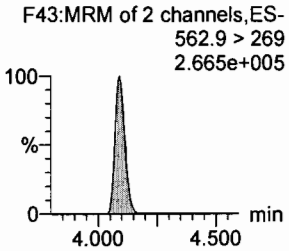
N-EtFOSAA



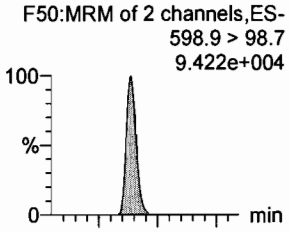


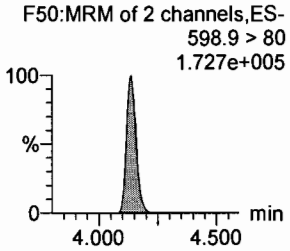
PFUnA



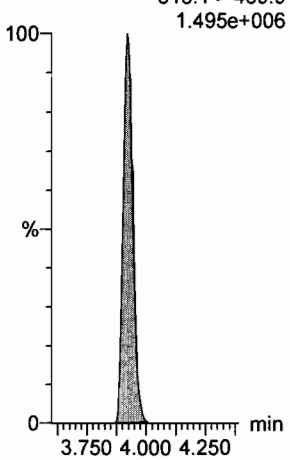


PFDS

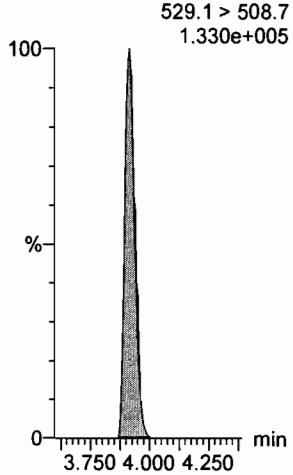




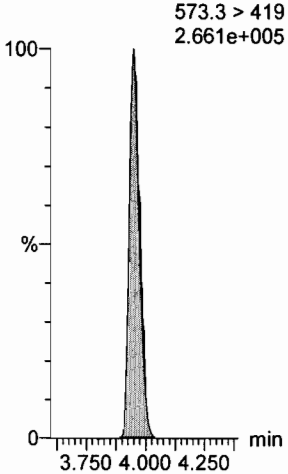
13C2-PFDA



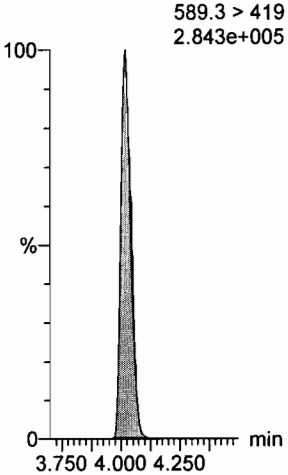
13C2-8:2 FTS



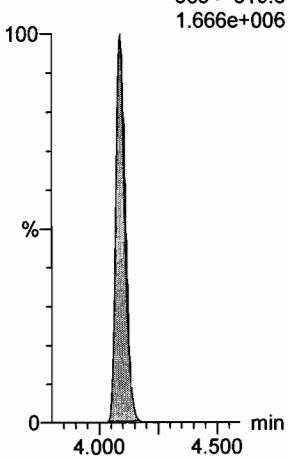
d3-N-MeFOSAA



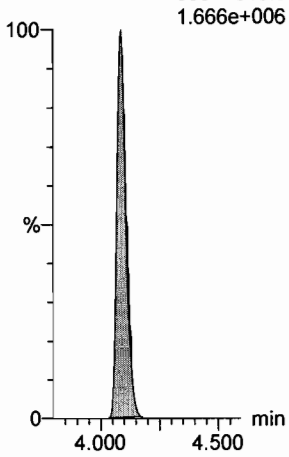
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

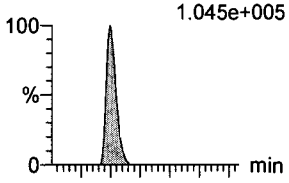


Dataset: U:\Q4.PRO\results\170822M1\170822M1-13.qld

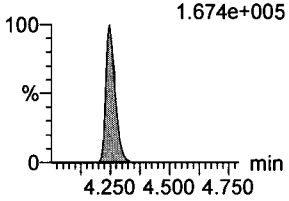
Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
Printed: Tuesday, August 22, 2017 14:01:36 Pacific Daylight Time

Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

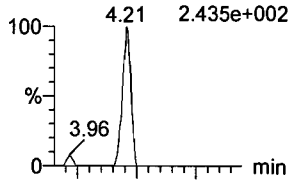
PFDoA
F51:MRM of 2 channels,ES-
612.9 > 318.8
1.045e+005



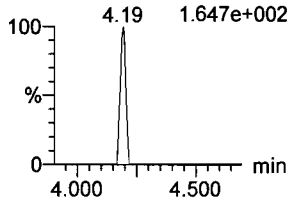
F51:MRM of 2 channels,ES-
612.9 > 569
1.674e+005



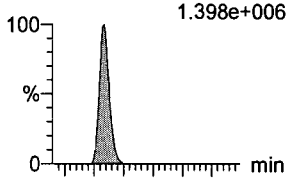
N-MeFOSA
F34:MRM of 2 channels,ES-
512.1 > 168.9
2.435e+002



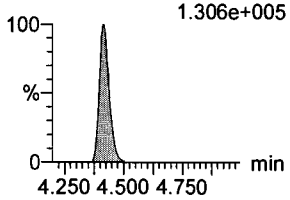
F34:MRM of 2 channels,ES-
512.1 > 219
1.647e+002



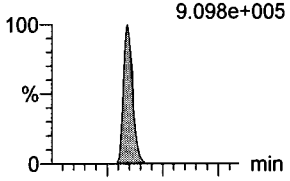
PFTrDA
F57:MRM of 2 channels,ES-
662.9 > 618.9
1.398e+006



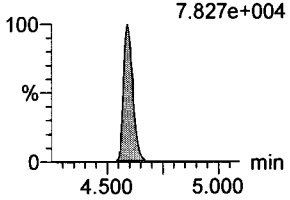
F57:MRM of 2 channels,ES-
662.9 > 319
1.306e+005



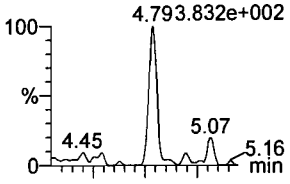
PFTeDA
F58:MRM of 4 channels,ES-
712.9 > 668.8
9.098e+005



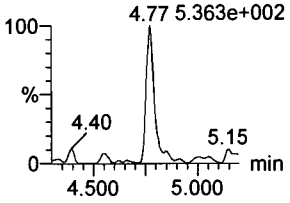
F58:MRM of 4 channels,ES-
712.9 > 369
7.827e+004



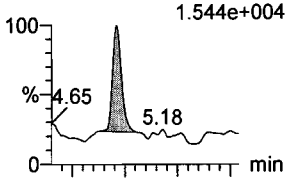
N-EtFOSA
F39:MRM of 2 channels,ES-
526.1 > 168.9
4.793.832e+002



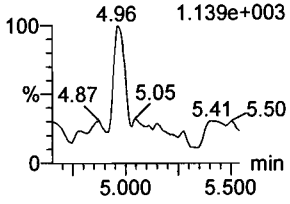
F39:MRM of 2 channels,ES-
526.1 > 219
4.77 5.363e+002



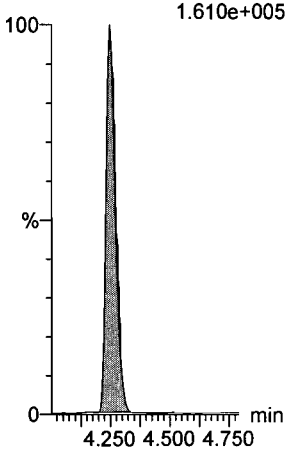
PFHxDA
F60:MRM of 2 channels,ES-
812.8 > 768.9
1.544e+004



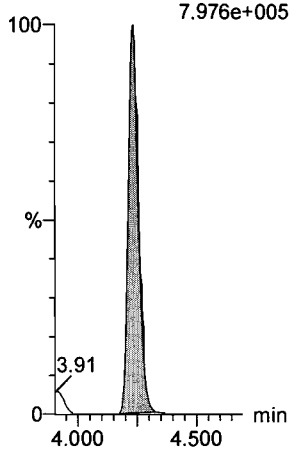
F60:MRM of 2 channels,ES-
812.8 > 219
1.139e+003



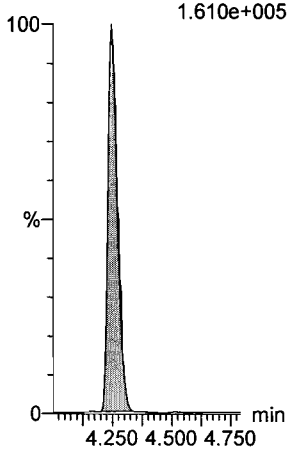
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.610e+005



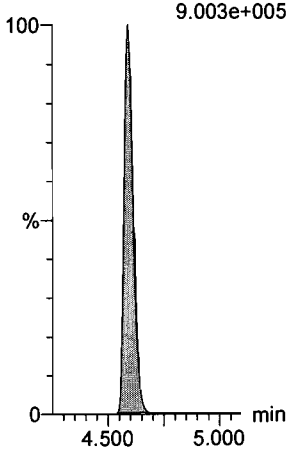
d3-N-MeFOSA
F37:MRM of 1 channel,ES-
515.2 > 168.9
7.976e+005



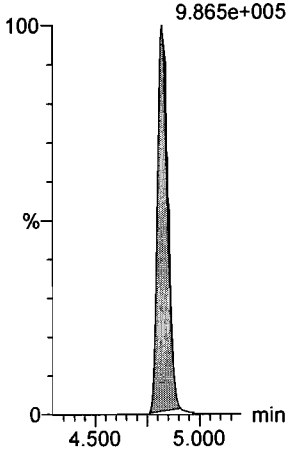
13C2-PFDoA
F52:MRM of 1 channel,ES-
615 > 569.7
1.610e+005



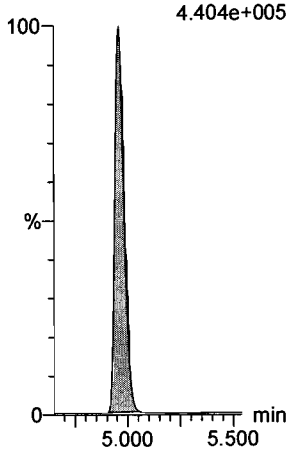
13C2-PFTeDA
F59:MRM of 2 channels,ES-
714.8 > 669.6
9.003e+005



d5-N-ETFOSA
F42:MRM of 1 channel,ES-
531.1 > 168.9
9.865e+005



13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.404e+005



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Last Altered: Tuesday, August 22, 2017 13:59:15 Pacific Daylight Time
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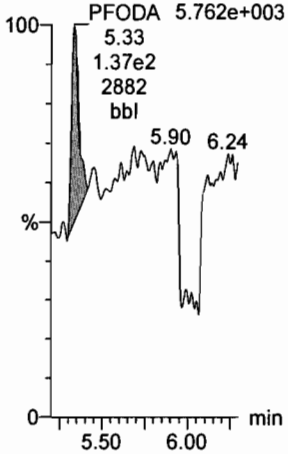
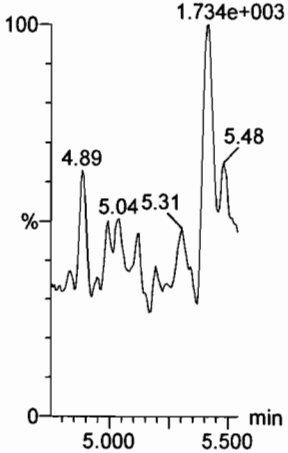
Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

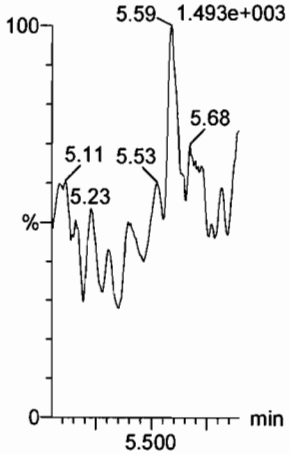
PFODA
F62:MRM of 4 channels,ES-
912.8 > 868.8
PFODA 5.762e+003



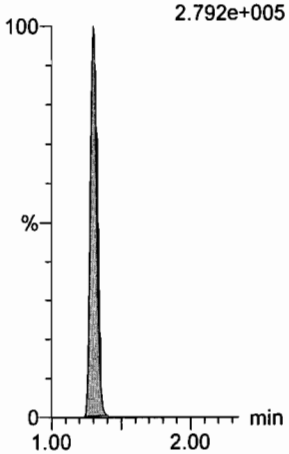
N-MeFOSE
F53:MRM of 1 channel,ES-
616.1 > 58.9
1.734e+003



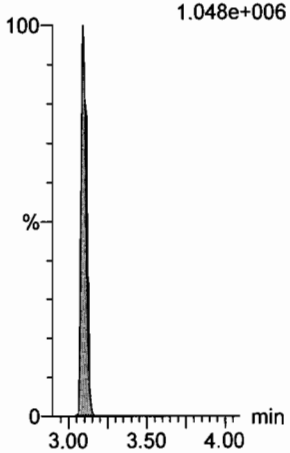
N-EtFOSE
F55:MRM of 1 channel,ES-
630.1 > 58.9
5.59 1.493e+003



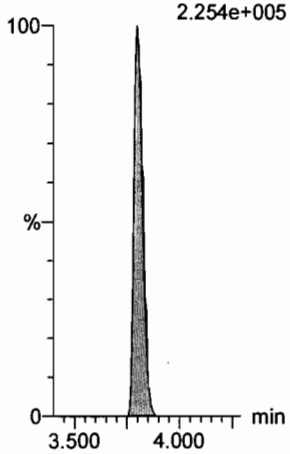
13C4-PFBA
F3:MRM of 1 channel,ES-
217 > 171.8
2.792e+005



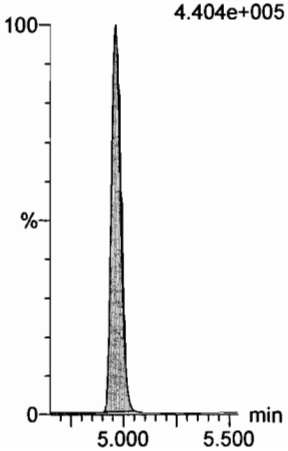
13C5-PFHxA
F10:MRM of 1 channel,ES-
318 > 272.9
1.048e+006



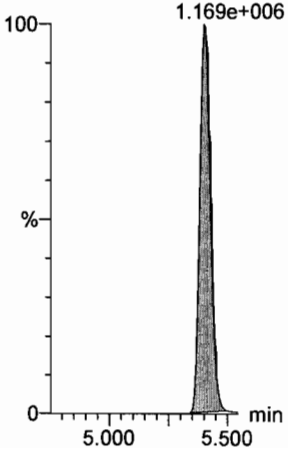
13C4-PFOS
F31:MRM of 1 channel,ES-
503 > 79.9
2.254e+005



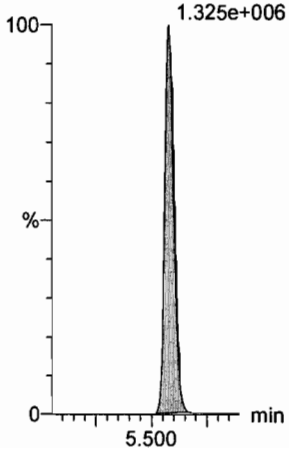
13C2-PFHxDA
F61:MRM of 1 channel,ES-
815 > 769.7
4.404e+005



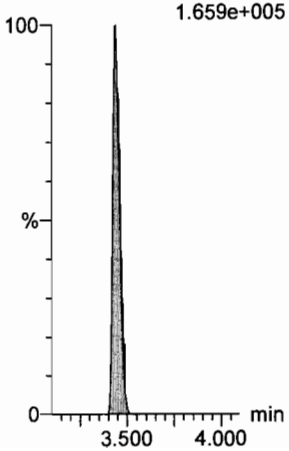
d7-N-MeFOSE
F54:MRM of 1 channel,ES-
623.1 > 58.9
1.169e+006



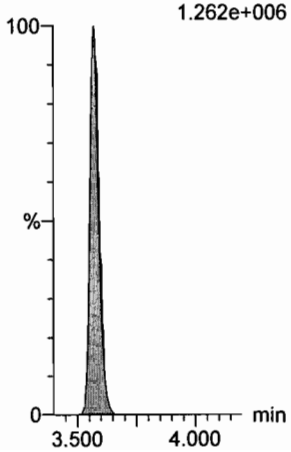
d9-N-EtFOSE
F56:MRM of 1 channel,ES-
639.2 > 58.8
1.325e+006



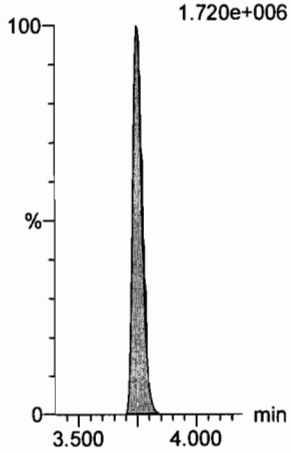
13C3-PFHxS
F17:MRM of 1 channel,ES-
401.9 > 79.9
1.659e+005



13C8-PFOA
F21:MRM of 1 channel,ES-
421.3 > 376
1.262e+006



13C9-PFNA
F27:MRM of 1 channel,ES-
472.2 > 426.9
1.720e+006



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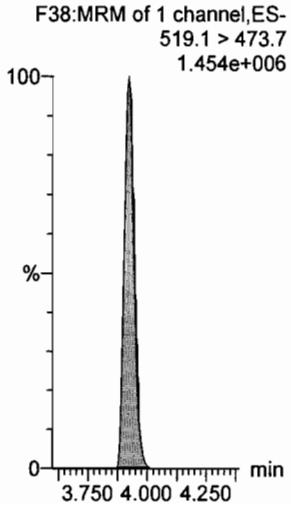
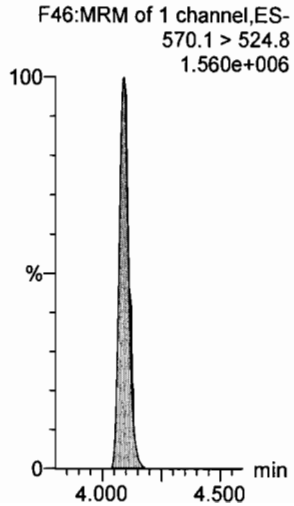
Printed: Tuesday, August 22, 2017 14:01:36 Pacific Daylight Time

Name: 170822M1_13, Date: 22-Aug-2017, Time: 13:00:26, ID: ICV170822M1-1 PFC ICV 17H2201, Description: PFC ICV 17H2201

13C6-PFDA



13C7-PFUnA



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Dataset: U:\Q4.PRO\results\170822M1\170822M1-12.qld

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Inst. Blank AC 8/22/17

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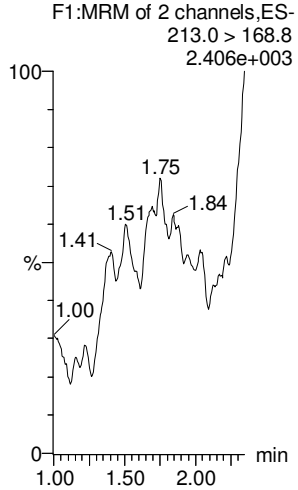
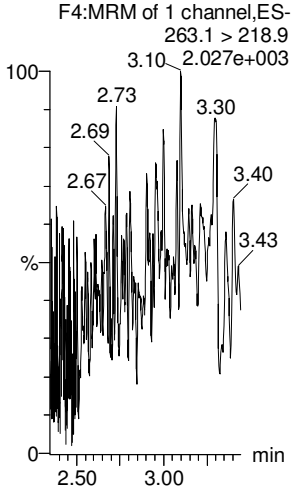
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_8-22-17-FULL.cdb 22 Aug 2017 13:46:03

Name: 170822M1_12, Date: 22-Aug-2017, Time: 12:49:48, ID: IPA, Description: IPA

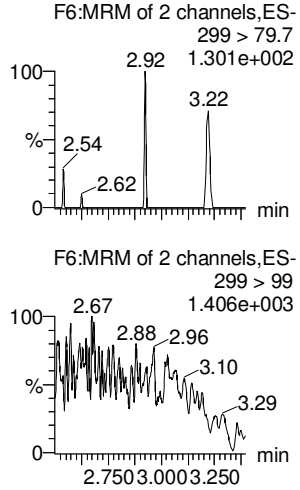
PFBA



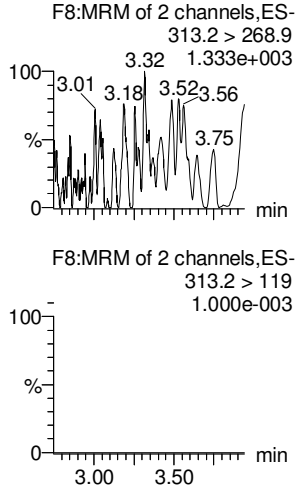
PFPeA



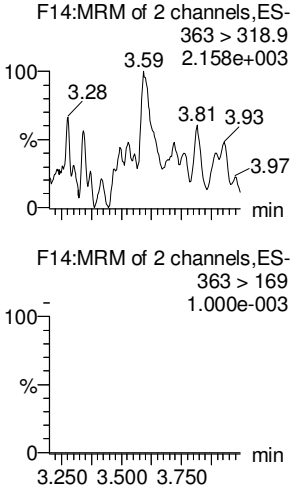
PFBS



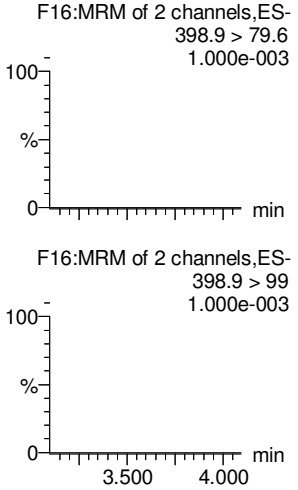
PFHxA



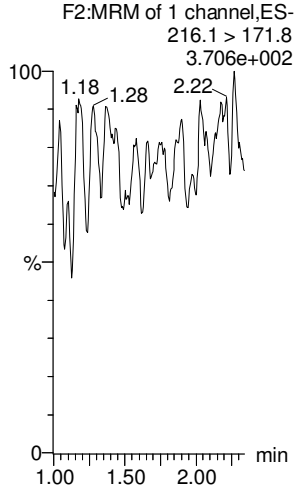
PFHpA



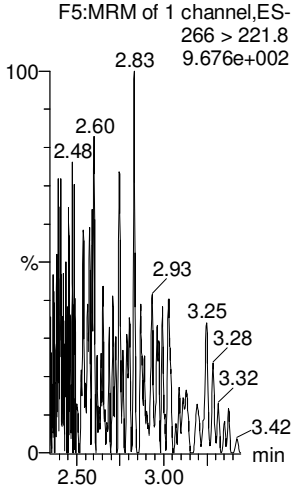
PFHxS



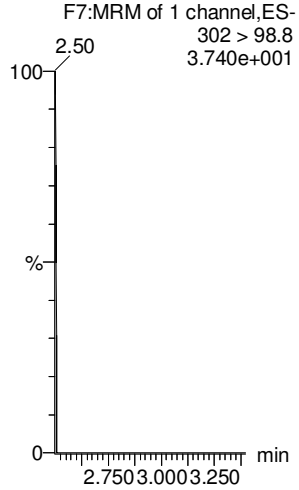
13C3-PFBA



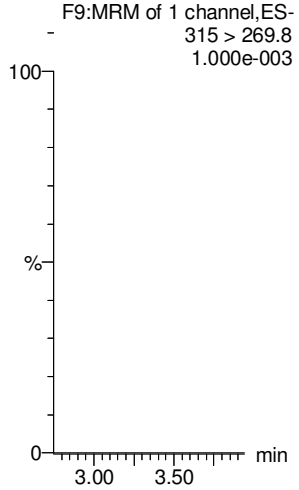
13C3-PFPeA



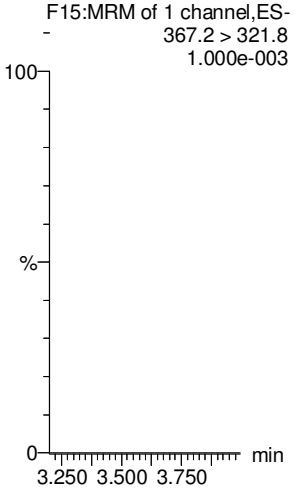
13C3-PFBS



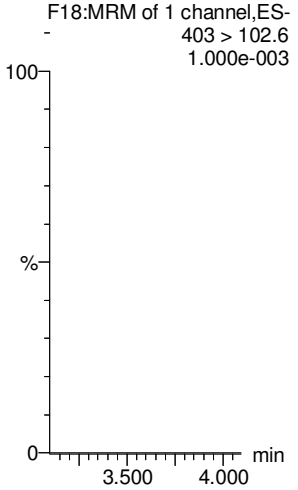
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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Dataset: U:\Q4.PRO\results\170822M1\170822M1-12.qld

Last Altered: Tuesday, August 22, 2017 13:56:30 Pacific Daylight Time
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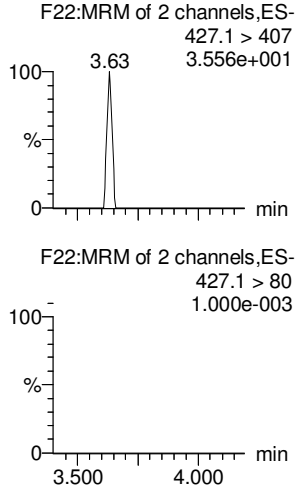
6:2 FTS



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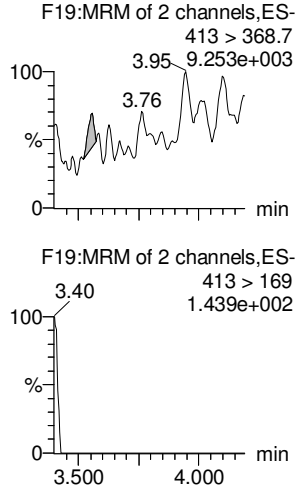

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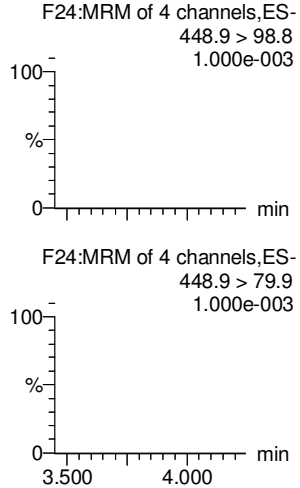

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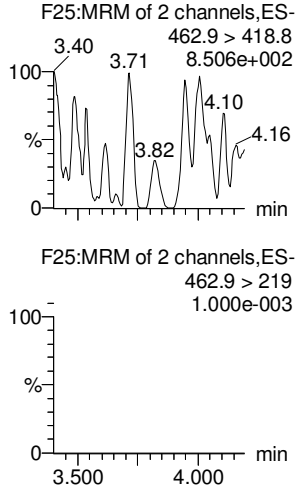

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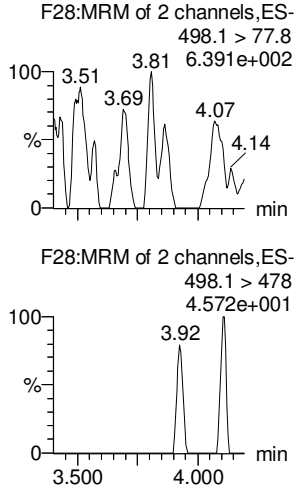

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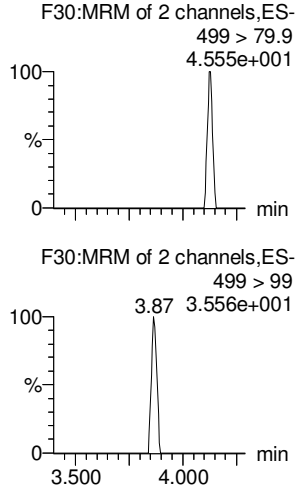

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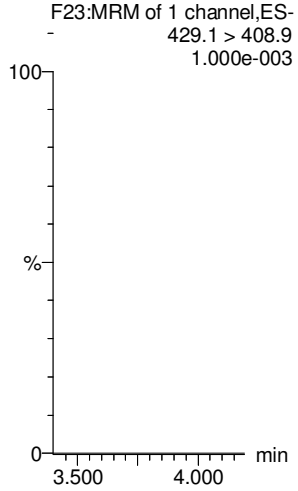

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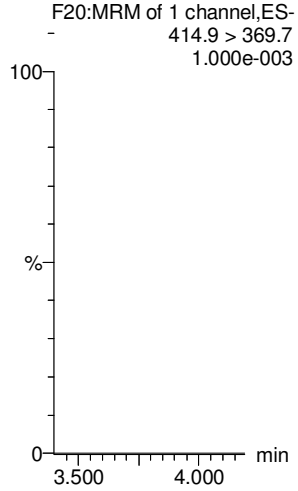

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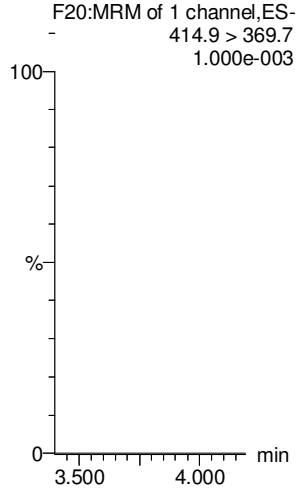

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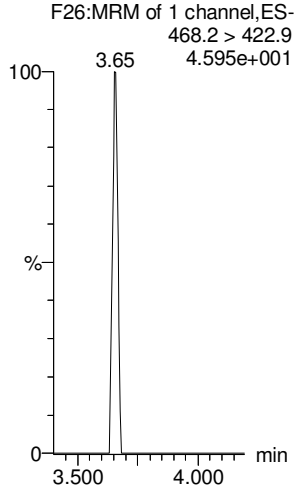

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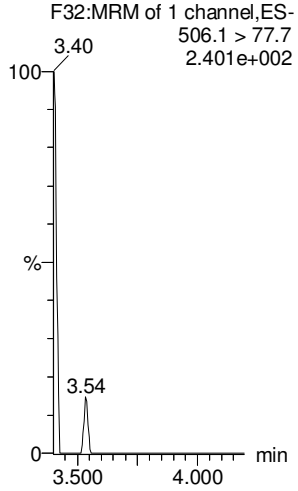

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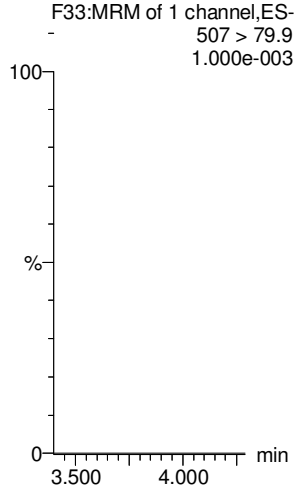

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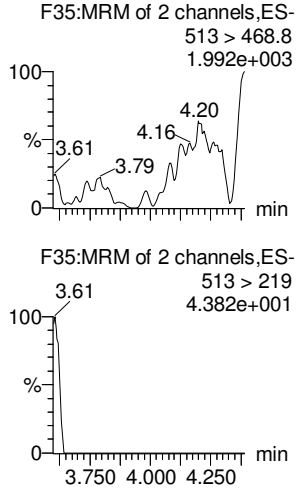

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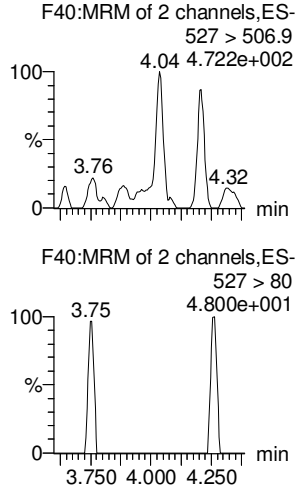

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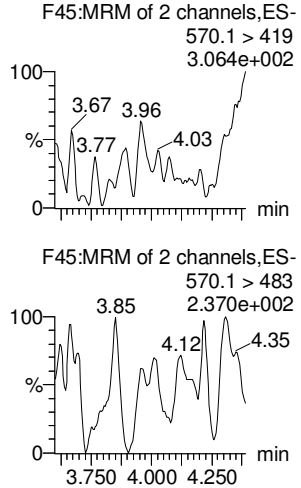

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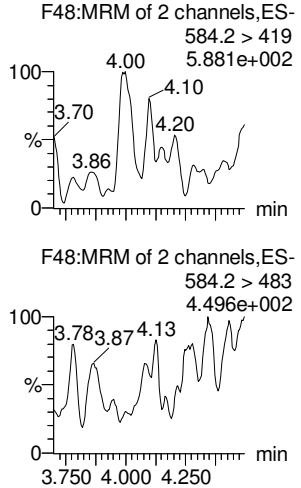

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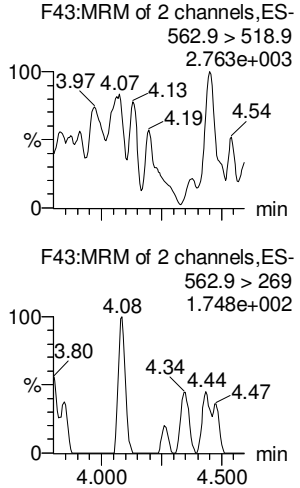

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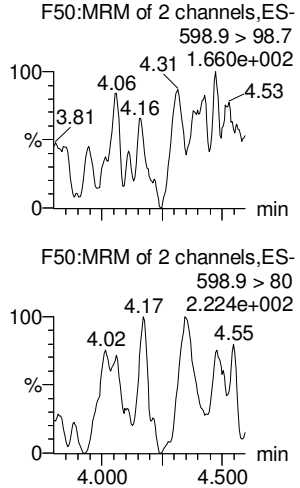

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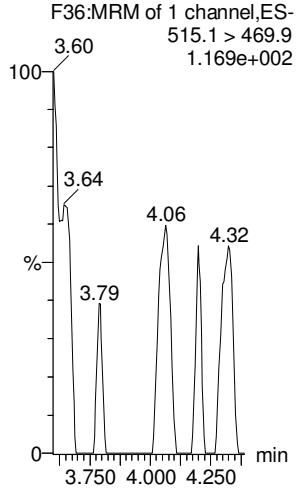

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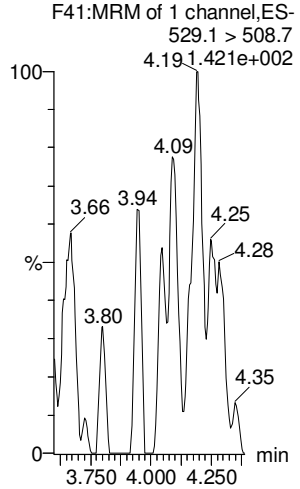

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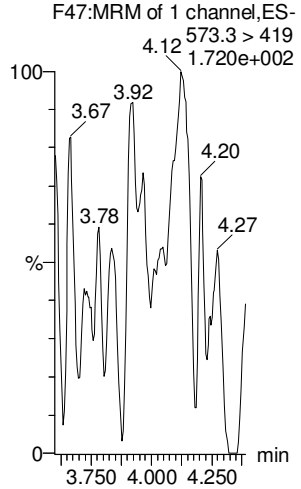

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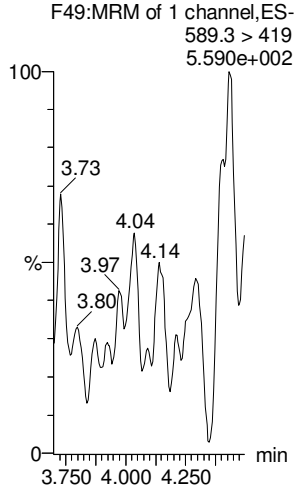

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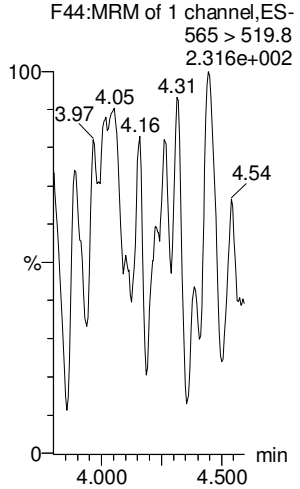

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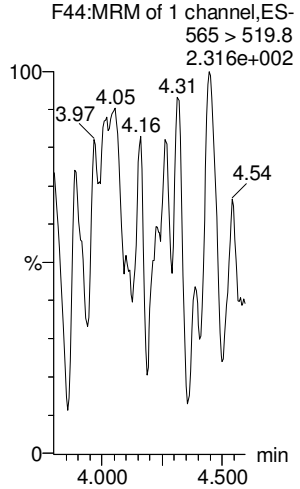

Vista Analytical Laboratory

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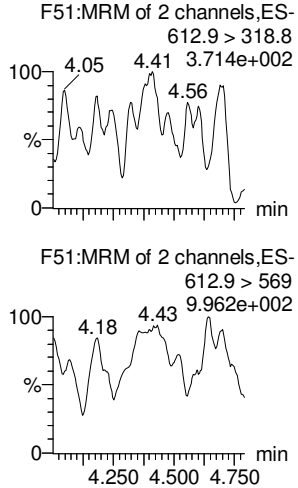

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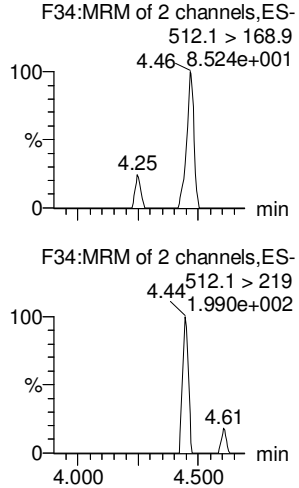

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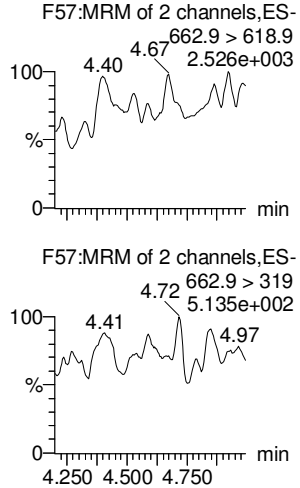

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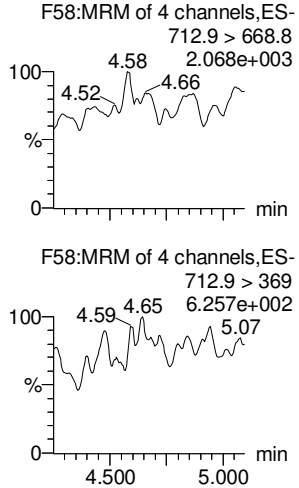

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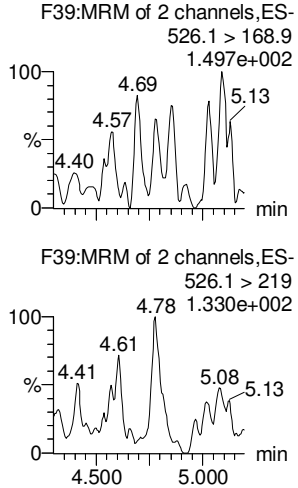

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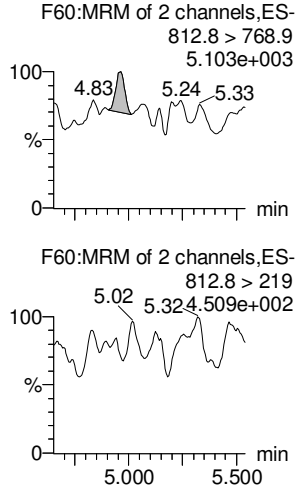

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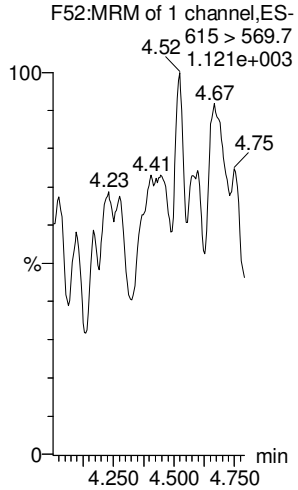

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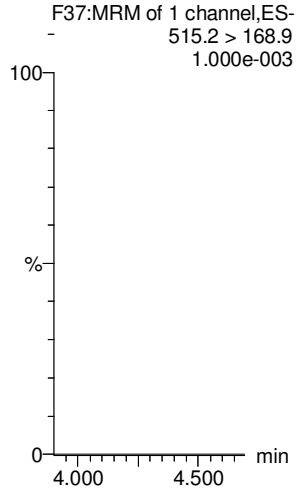

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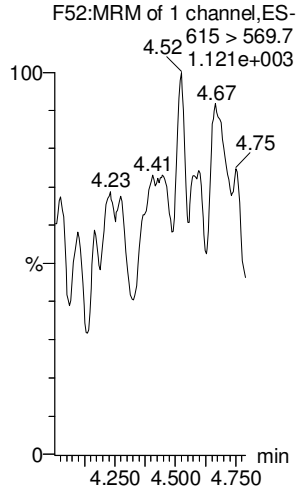

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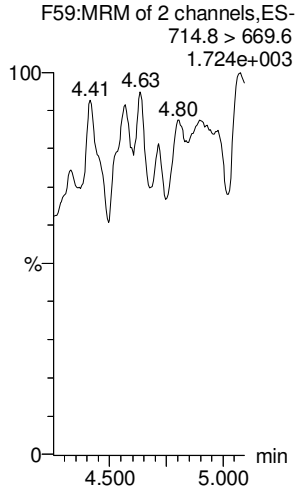

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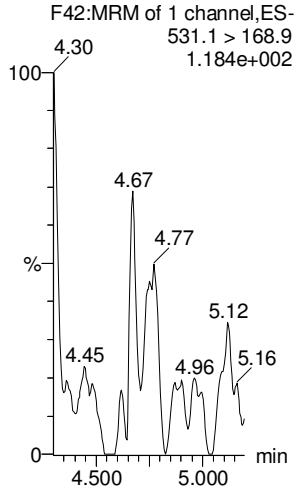

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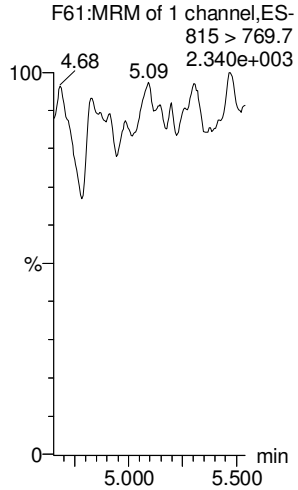

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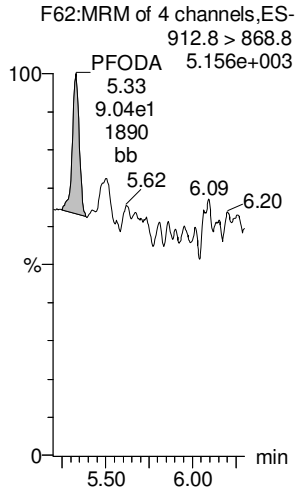

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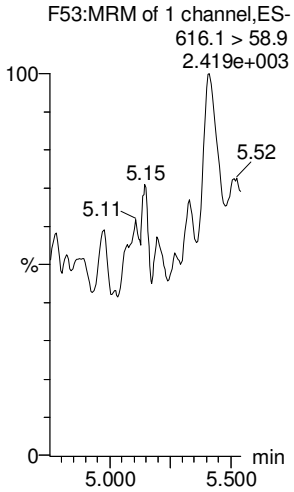

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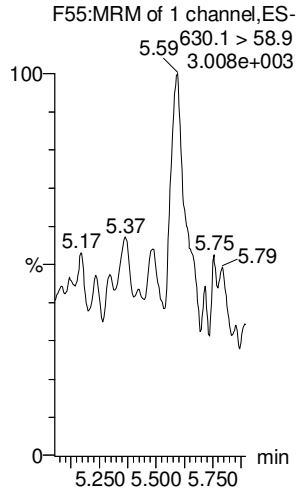

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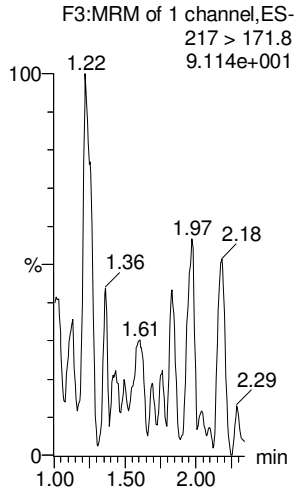

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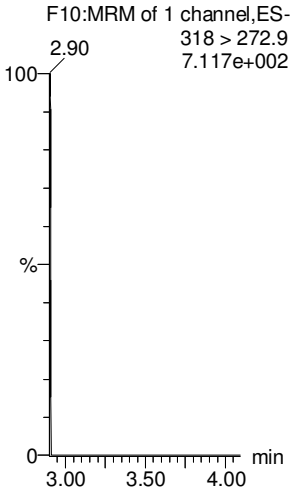

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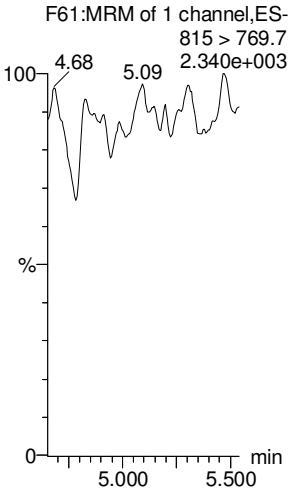

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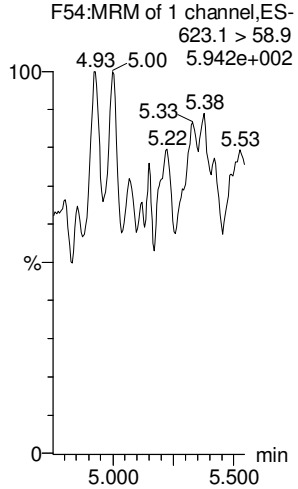

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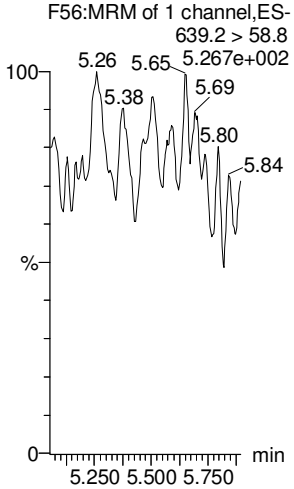

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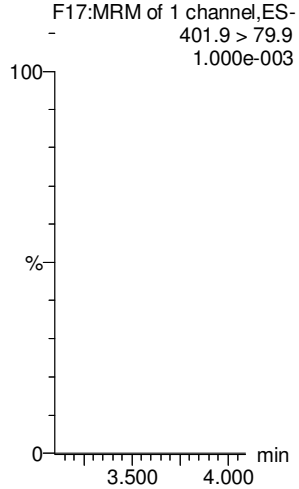

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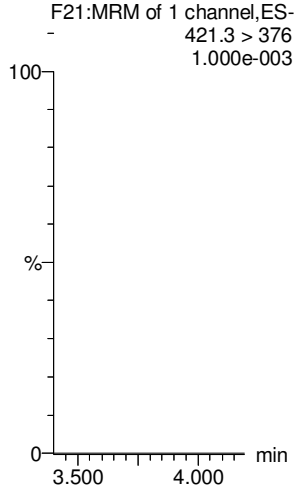

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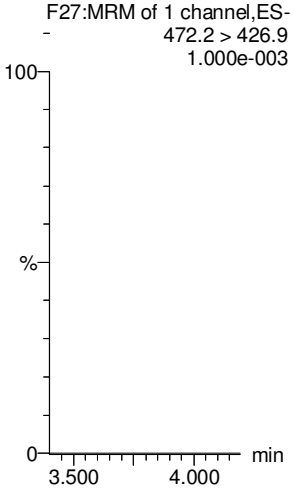

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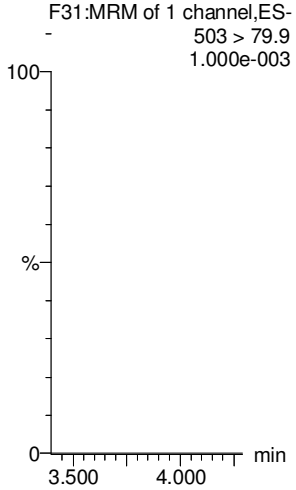

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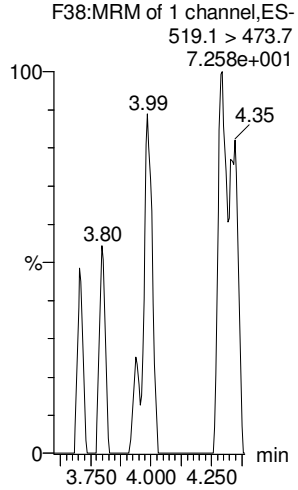

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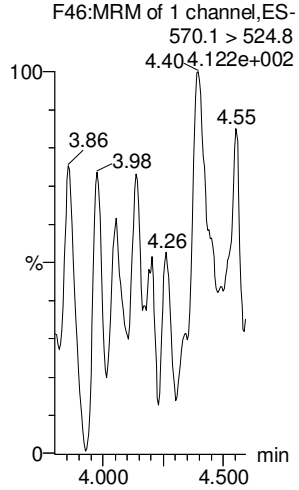

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Trevet
7220 Trade Street, Suite 300
San Diego, CA 92121
ATTN: Mrs. Jordy Bjorkman

October 2, 2017

SUBJECT: Hunters Point GW Monitoring, Data Validation

Dear Mrs. Bjorkman,

Enclosed is the final validation report for the fraction listed below. This SDG was received on September 8, 2017. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #39413

SDG #	**Fraction**
1700980	Perfluorinated Alkyl Acids

The data validation was performed under Stage 2B & 4 validation guidelines. The analyses were validated using the following documents and variances, as applicable to each method:

- Final Management and Monitoring Approach Sampling and Analysis Plan for Basewide Groundwater Monitoring Program, Hunters Point Naval Shipyard, San Francisco, California, April 2017
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.0, July 2013
- USEPA National Functional Guidelines for Superfund Organic Methods Data Review, January 2017

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

Sincerely,

Shauna McKellar
Project Manager/Chemist

577 pages-SF

Attachment 1

ADR Stage 2B/4 Client Select

LDC #39413 (Trevet-San Diego / Hunters Point PFAS)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PFAs (537M)																																					
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	1700980	09/08/17	09/29/17	9	0																																				
A	1700980	09/08/17	09/29/17	1	0																																				
Total	T/SM			10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

Shaded cells indicate Stage 4 validation (all other cells are Stage 2B validation) These sample counts do not include MS/MSD and DUPs V:\LOGIN\Trevet\HuntersPoint PFAS\39413ST.wpd

Data Validation Report
Hunters Point GW Monitoring

SDG: 1700980

Prepared for

Trevet, Inc.
7220 Trade Street, Suite 300
San Diego, CA 92121

Prepared by

Laboratory Data Consultants, Inc
2701 Loker Ave West, Suite 220
Carlsbad, CA 92010

October 2, 2017

INTRODUCTION

This Data Validation Report (DVR) presents Stage 2B and Stage 4 data validation results for samples collected during the August 2017 sampling period. Data validation was performed in accordance with Final Management and Monitoring Approach Sampling and Analysis Plan (SAP) for Basewide Groundwater Monitoring Program, Hunters Point Naval Shipyard, San Francisco, California (April 2017), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013) and the US EPA National Functional Guidelines (NFG) for Superfund Organic Methods Data Review (January 2017). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Perfluorinated Alkyl Acids (PFAs) by Environmental Protection Agency (EPA) Method 537 Modified

The sample identification and methods of analyses performed on each sample is presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Stage 2B Automated Data Review outliers are presented in Enclosure I. DVRs for samples on which Stage 4 validation was performed are presented in Enclosure II.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, laboratory blanks, matrix spike/matrix spike duplicates (MS/MSD), ongoing precision recovery (OPR), internal standards, field blanks, equipment rinsates, source blanks, and field duplicates. Approximately 10 percent of samples were subjected to Stage 4 evaluation as indicated in Attachment 1, which comprises a review of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with exception of the calibrations and internal standards, which were validated manually. Quality assurance (QA)/QC criteria specified in the SAP, DoD QSM, and NFG were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detect): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

X (Do Not Report): A more appropriate result is reported from another analysis or dilution.

NA (Not applicable): Data did not warrant qualification since detected results only are affected and the compound was not detected in the associated samples.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Instrument Performance Check

A tune was performed at 12 hour intervals as required by the method.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

All criteria for the initial calibration and initial calibration verifications of the method were met with the following exceptions:

Date	Standard	Compound	%D(Limits)
08/11/17	ICAL-SCN945	PFHxA PFHpA PFNA	73.8 (≤30%) 68.7 (≤30%) 79.1 (≤30%)

No data were qualified since these were the lowest points in the initial calibration.

IV. Continuing Calibration

All criteria for the continuing calibration of the method were met.

V. Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminant concentrations were detected in the laboratory blanks.

VI. Field Blank Samples

One field blank was collected and analyzed for PFAs. No contaminants were found.

One equipment blank was collected and analyzed for PFAs. No contaminants were found.

One source blank was collected and analyzed for PFAs. No contaminants were found.

VII. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Ongoing Precision Recovery

Ongoing precision recovery (OPR) samples were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicate Samples

One field duplicate pair was collected and analyzed for PFAs. All RPDs were within QC limits. The field duplicate result comparisons are provided in Enclosure I.

XI. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

SDG/ Method	Sample	Internal Standards	%R (Limits)	Associated Compounds	Flag	A or P
1700980/ 537M	IR09MW61A-080217	13C2-PFDoA 13C2-PFTeDA	39.3 (50-150) 26.7 (50-150)	PFDoA PFTeDA	UJ (all non-detects)	A
1700980/ 537M	IR09MW62A-080217	13C2-PFDoA 13C2-PFTeDA	38.3 (50-150) 38.3 (50-150)	PFDoA PFTeDA	UJ (all non-detects)	A
1700980/ 537M	IR09P040A-080217	13C2-PFDoA 13C2-PFTeDA	47.6 (50-150) 48.9 (50-150)	PFDoA PFTeDA	UJ (all non-detects)	A
1700980/ 537M	IR10MW28A-080217	13C2-PFTeDA	46.7 (50-150)	PFTeDA	UJ (all non-detects)	A
1700980/ 537M	080217-FB-01	13C2-PFDoA 13C2-PFTeDA	35.1 (50-150) 34.7 (50-150)	PFDoA PFTeDA	UJ (all non-detects)	A
1700980/ 537M	IR10MW13A1-080217	13C2-PFDoA 13C2-PFTeDA	22.9 (50-150) 20.3 (50-150)	PFDoA PFTeDA	UJ (all non-detects)	A
1700980/ 537M	IR10MW31A1-080217	13C2-PFDoA 13C2-PFTeDA	39.4 (50-150) 20.6 (50-150)	PFDoA PFTeDA	UJ (all non-detects)	A
1700980/ 537M	IR10MW31A1-080217-D	13C2-PFDoA	42.0 (50-150)	PFDoA	UJ (all non-detects)	A
1700980/ 537M	IR10MW31A1-080217-D	13C2-PFTeDA	9.50 (50-150)	PFTeDA	R (all non-detects)	A

SDG/ Method	Sample	Internal Standards	%R (Limits)	Associated Compounds	Flag	A or P
1700980/ 537M	080217-ER-01	13C2-PFTeDA	14.2 (50-150)	PFTeDA	R (all non-detects)	A
1700980/ 537M	080217-SB-01	13C2-PFDoA	37.1 (50-150)	PFDoA	UJ (all non-detects)	A
1700980/ 537M	080217-SB-01	13C2-PFTeDA	15.6 (50-150)	PFTeDA	R (all non-detects)	A

The associated sample results were qualified as rejected (R) or non-detected estimated (UJ) as applicable.

XII. Compound Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All compounds reported below the LOQ as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosures I and II.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to severe internal standards %R exceedances, data were qualified as rejected in three samples.

Due to internal standards %R, data were qualified as estimated in nine samples.

Due to results below the LOQ, data were qualified as estimated in seven samples.

The quality control criteria reviewed, as discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation, all other results are considered valid and usable for all purposes.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2017	IR09MW61A-080217	1700980-01	N	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	IR09MW62A-080217	1700980-02	N	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	IR09MW62A-080217MS	B7H0035-MS1	MS	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	IR09MW62A-080217MSD	B7H0035-MSD1	MSD	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	IR09P040A-080217	1700980-03	N	Gen Prep	EPA Method 537M	Stage 4
02-Aug-2017	IR10MW28A-080217	1700980-04	N	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	080217-FB-01	1700980-05	FB	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	IR10MW13A1-080217	1700980-06	N	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	IR10MW31A1-080217	1700980-07	N	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	IR10MW31A1-080217-D	1700980-08	FD	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	080217-ER-01	1700980-09	ER	Gen Prep	EPA Method 537M	Stage 2B
02-Aug-2017	080217-SB-01	1700980-10	SB	Gen Prep	EPA Method 537M	Stage 2B

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 1700980 **Laboratory: Vista**

EDD Filename: Prep1700980 **eQAPP Name: A174_Hunters Point PFAS**

Method Category: **VOA**

Method: **Modified EPA Method 537** ***Matrix:*** **AQ**

Sample ID: **080217-ER-01** ***Collected:*** **8/2/2017 4:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFTeDA	8.40	U	5.25	LOD	8.40	LOQ	ng/L	R	Is

Sample ID: **080217-FB-01** ***Collected:*** **8/2/2017 2:40:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFDoA	8.21	U	5.12	LOD	8.21	LOQ	ng/L	UJ	Is
PFTeDA	8.21	U	5.12	LOD	8.21	LOQ	ng/L	UJ	Is

Sample ID: **080217-SB-01** ***Collected:*** **8/2/2017 4:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFDoA	8.40	U	5.25	LOD	8.40	LOQ	ng/L	UJ	Is
PFTeDA	8.40	U	5.25	LOD	8.40	LOQ	ng/L	R	Is

Sample ID: **IR09MW61A-080217** ***Collected:*** **8/2/2017 10:00:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFBS	3.90	J	5.84	LOD	9.31	LOQ	ng/L	J	RI
PFDoA	9.31	U	5.84	LOD	9.31	LOQ	ng/L	UJ	Is
PFHpA	9.23	J	5.84	LOD	9.31	LOQ	ng/L	J	RI
PFOS	7.09	J	5.84	LOD	9.31	LOQ	ng/L	J	RI
PFTeDA	9.31	U	5.84	LOD	9.31	LOQ	ng/L	UJ	Is

Sample ID: **IR09MW62A-080217** ***Collected:*** **8/2/2017 11:05:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFDoA	8.87	U	5.53	LOD	8.87	LOQ	ng/L	UJ	Is
PFHxS	6.52	J	5.53	LOD	8.87	LOQ	ng/L	J	RI
PFTeDA	8.87	U	5.53	LOD	8.87	LOQ	ng/L	UJ	Is

Sample ID: **IR09P040A-080217** ***Collected:*** **8/2/2017 12:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFBS	1.93	J	5.34	LOD	8.53	LOQ	ng/L	J	RI
PFDoA	8.53	U	5.34	LOD	8.53	LOQ	ng/L	UJ	Is

* denotes a non-reportable result

Project Name and Number: A174_Hunters Point PFAS - A174_Hunters Point PFAS

Data Qualifier Summary

Lab Reporting Batch ID: 1700980 **Laboratory: Vista**

EDD Filename: Prep1700980 **eQAPP Name: A174_Hunters Point PFAS**

Method Category: **VOA**

Method: **Modified EPA Method 537** ***Matrix:*** **AQ**

Sample ID: **IR09P040A-080217** ***Collected:*** **8/2/2017 12:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFOA	8.45	J	5.34	LOD	8.53	LOQ	ng/L	J	RI
PFTeDA	8.53	U	5.34	LOD	8.53	LOQ	ng/L	UJ	Is

Sample ID: **IR10MW13A1-080217** ***Collected:*** **8/2/2017 2:50:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFDoA	8.26	U	5.17	LOD	8.26	LOQ	ng/L	UJ	Is
PFHxS	3.20	J	5.17	LOD	8.26	LOQ	ng/L	J	RI
PFTeDA	8.26	U	5.17	LOD	8.26	LOQ	ng/L	UJ	Is

Sample ID: **IR10MW28A-080217** ***Collected:*** **8/2/2017 1:55:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFDA	2.01	J	5.30	LOD	8.51	LOQ	ng/L	J	RI
PFHxS	7.79	J	5.30	LOD	8.51	LOQ	ng/L	J	RI
PFNA	0.935	J	5.30	LOD	8.51	LOQ	ng/L	J	RI
PFTeDA	8.51	U	5.30	LOD	8.51	LOQ	ng/L	UJ	Is

Sample ID: **IR10MW31A1-080217** ***Collected:*** **8/2/2017 3:20:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFBS	2.28	J	5.08	LOD	8.14	LOQ	ng/L	J	RI
PFDoA	8.14	U	5.08	LOD	8.14	LOQ	ng/L	UJ	Is
PFHxS	1.26	J	5.08	LOD	8.14	LOQ	ng/L	J	RI
PFTeDA	8.14	U	5.08	LOD	8.14	LOQ	ng/L	UJ	Is

Sample ID: **IR10MW31A1-080217-D** ***Collected:*** **8/2/2017 3:30:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PFBS	2.95	J	5.21	LOD	8.36	LOQ	ng/L	J	RI
PFDoA	8.36	U	5.21	LOD	8.36	LOQ	ng/L	UJ	Is
PFHxS	1.19	J	5.21	LOD	8.36	LOQ	ng/L	J	RI
PFTeDA	8.36	U	5.21	LOD	8.36	LOQ	ng/L	R	Is

* denotes a non-reportable result

Project Name and Number: A174_Hunters Point PFAS - A174_Hunters Point PFAS

Data Qualifier Summary

Lab Reporting Batch ID: 1700980 **Laboratory: Vista**

EDD Filename: Prep1700980 **eQAPP Name: A174_Hunters Point PFAS**

Reason Code Legend

Reason Code	*Description*
Is	Internal Standard Estimation
Is	Internal Standard Rejection
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: A174_Hunters Point PFAS - A174_Hunters Point PFAS

Enclosure I

Stage 2B ADR Outliers

(Including Manual Review Outliers)

Quality Control Outlier Reports

1700980

Reporting Limit Outliers

Lab Reporting Batch ID: 1700980 **Laboratory: Vista**

EDD Filename: 1700980_ldc **eQAPP Name: A174_Hunters Point PFAS**

Method: **Modified EPA Method 537**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
IR09MW61A-080217	PFBS	J	3.90	9.31	LOQ	ng/L	J (all detects)
	PFHpA	J	9.23	9.31	LOQ	ng/L	
	PFOS	J	7.09	9.31	LOQ	ng/L	
IR09MW62A-080217	PFHxS	J	6.52	8.87	LOQ	ng/L	J (all detects)
IR09P040A-080217	PFBS	J	1.93	8.53	LOQ	ng/L	J (all detects)
	PFOA	J	8.45	8.53	LOQ	ng/L	
IR10MW13A1-080217	PFHxS	J	3.20	8.26	LOQ	ng/L	J (all detects)
IR10MW28A-080217	PFDA	J	2.01	8.51	LOQ	ng/L	J (all detects)
	PFHxS	J	7.79	8.51	LOQ	ng/L	
	PFNA	J	0.935	8.51	LOQ	ng/L	
IR10MW31A1-080217	PFBS	J	2.28	8.14	LOQ	ng/L	J (all detects)
	PFHxS	J	1.26	8.14	LOQ	ng/L	
IR10MW31A1-080217-D	PFBS	J	2.95	8.36	LOQ	ng/L	J (all detects)
	PFHxS	J	1.19	8.36	LOQ	ng/L	

Field Duplicate RPD Report

Lab Reporting Batch ID: 1700980 **Laboratory: Vista**

EDD Filename: 1700980_ldc **eQAPP Name: A174_Hunters Point PFAS**

Method: Modified EPA Method 537
Matrix: AQ

Analyte	Concentration (ng/L)		Sample RPD	eQAPP RPD	Flag
	IR10MW31A1-080217	IR10MW31A1-080217-D			
PFBS	2.28	2.95	26	30.00	No Qualifiers Applied
PFHxS	1.26	1.19	6	30.00	

LDC #: 39413A96 **VALIDATION COMPLETENESS WORKSHEET** Date: 09/22/17
SDG #: 1700980 ADR Stage 2B/4 Page: 1 of 1
Laboratory: Vista Analytical Laboratory Reviewer: [illegible]
2nd Reviewer: KK

METHOD: LC/MS Perfluorinated Alkyl Acids (EPA Method 537 Modified)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW / A	ICAL ≤ r² ICV ≤ 25%
IV.	Continuing calibration	A	CCV ≤ 25%
V.	Laboratory Blanks	N	
VI.	Field blanks		
VII.	Surrogate spikes		
VIII.	Matrix spike/Matrix spike duplicates		
IX.	Laboratory control samples		
X.	Field duplicates		
XI.	Internal standards	SW	
XII.	Compound quantitation RL/LOQ/LODs		Not reviewed for Stage 2B validation
XIII.	Target compound identification		Not reviewed for Stage 2B validation
XIV.	System performance		Not reviewed for Stage 2B validation
XV.	Overall assessment of data		

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	IR09MW61A-080217	1700980-01	Water	08/02/17
2	IR09MW62A-080217	1700980-02	Water	08/02/17
3	IR09P040A-080217**	1700980-03**	Water	08/02/17
4	IR10MW28A-080217	1700980-04	Water	08/02/17
5	080217-FB-01	1700980-05	Water	08/02/17
6	IR10MW13A1-080217	1700980-06	Water	08/02/17
7	IR10MW31A1-080217	1700980-07	Water	08/02/17
8	IR10MW31A1-080217-D	1700980-08	Water	08/02/17
9	080217-ER-01	1700980-09	Water	08/02/17
10	080217-SB-01	1700980-10	Water	08/02/17
11	IR09MW62A-080217MS	1700980-02MS	Water	08/02/17
12	IR09MW62A-080217MSD	1700980-02MSD	Water	08/02/17
13				
14	B7H 0035 Blk1			

TARGET COMPOUND WORKSHEET

METHOD: PFOS/PFOAs

A. PFHxA			
B. PFHpA			
C. PFOA			
D. PFNA			
E. PFDA			
F. PFUnA			
G. PFDoA			
H. PFTriA			
I. PFTeDA			
J. PFBS			
K. PFHxS			
L. PFHpS			
M. PFOS			
N. PFDS			
O. FOSA			
P. PFBA			
Q. PFPeA			
R. 6:2FTS			
S. 8:2FTS			
T. MeFOSAA			
U. EtFOSAA			
V. Combined PFOAS/PFOS			

LDC #: 39413A96

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: VW

METHOD: LCMS PFAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?
Y N N/A Were all percent relative standard deviations (%RSD) ≤ 20% and %D ≤ 30% for each calibration standard?

#	Date	Standard ID	Compound	Finding (%D≤30%)	Finding (%RSD≤20%)	Finding RRF(≥0.99)	Associated Samples	Qualifications
	08/11/17	ICAL-SCN945	A	73.8				text
			B	68.7				(NQ, lowest pt.
			D	79.1				in the ICAL)

LDC #: 39413 A96

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: JVG

2nd Reviewer: [illegible]

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all internal standard area counts within -50 to +150% of the associated calibration standard?

(Y) N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	%R	Limits (%)	Associated Gd RT (Limits)	Qualifications
		1 (ND)	13C2-PFDoA	39.3	50-150	G	J/UJ/A
			13C2-PFTeDA	26.7		I	
		2	13C2-PFDoA	38.3		G	
			13C2-PFTeDA	38.3		I	
		3	13C2-PFDoA	47.6		G	
			13C2-PFTeDA	48.9		I	
		4	13C2-PFTeDA	46.7		I	
		5	13C2-PFDoA	35.1		G	
			13C2-PFTeDA	34.7		I	
		6	13C2-PFDoA	22.9		G	
			13C2-PFTeDA	20.3		I	
		7	13C2-PFDoA	39.4		G	
			13C2-PFTeDA	20.6		I	
		8	13C2-PFDoA	42.0		G	
			13C2-PFTeDA	9.50		I	J/R/A

(13C3-PFBS) = 13C3-Perfluorobutanesulfonic acid
(13C2-PFHxA) = 13C2-Perfluorohexanoic acid
(13C4-PFHpA) = 13C4-Perfluoroheptanoic acid
(18O2-PFHxS) = 18O2-Perfluorohexanesulfonic acid
(13C2-PFOA) = 13C4-Perfluorooctane acid
(13C8-PFOS) = 13C8-Perfluorooctanesulfonic acid
(13C5-PFNA) = 13C5-Perfluorononanoic acid
(13C2-PFDA) = 13C2-Perfluorodecanoic acid
(13C2-PFUnA) = 13C2-Perfluoroundecanoic acid
(13C2-PFDoA) = 13C2-Perfluorododecanoic acid
(13C2-PFTeDA) = 13C4-Perfluorotetradecanoic acid
(D3-MeFOSAA) = Methyl perfluorooctanesulfonamidoacetic acid
(D5-EtFOSAA) = Ethyl perfluorooctanesulfonamidoacetic acid

LDC #: 39413A96

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: JVG

2nd Reviewer: VM

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all internal standard area counts within -50 to +150% of the associated calibration standard?

(Y) N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	%R	Limits (%)	Associated qd ~~RT (Limits)~~	Qualifications
		9 (ND)	13C2 -PFTeDA	14.2	50-150	I	J/~~UJ~~/A
		10	13C2-PFDoA	37.1	~~37-1~~	G	J/UJ/A
			13C2-PFTeDA	15.6	~~15-6~~	I	J/R/A

(13C3-PFBS) = 13C3-Perfluorobutanesulfonic acid
(13C2-PFHxA) = 13C2-Perfluorohexanoic acid
(13C4-PFHpA) = 13C4-Perfluoroheptanoic acid
(18O2-PFHxS) = 18O2-Perfluorohexanesulfonic acid
(13C2-PFOA) = 13C4-Perfluorooctane acid
(13C8-PFOS) = 13C8-Perfluorooctanesulfonic acid
(13C5-PFNA) = 13C5-Perfluorononanoic acid
(13C2-PFDA) = 13C2-Perfluorodecanoic acid
(13C2-PFUnA) = 13C2-Perfluoroundecanoic acid
(13C2-PFDoA) = 13C2-Perfluorododecanoic acid
(13C2-PFTeDA) = 13C4-Perfluorotetradecanoic acid
(D3-MeFOSAA) = Methyl perfluorooctanesulfonamidoacetic acid
(D5-EtFOSAA) = Ethyl perfluorooctanesulfonamidoacetic acid

LDC#: 39413A96

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVG
2nd Reviewer: KK

METHOD: LC/MS PFAs (EPA Method 537M)
Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ng/L)		RPD (≤30%)
	7	8	
J	2.28	2.95	26
K	1.26	1.19	6

V:\Josephine\FIELD DUPLICATES\39413A96 trevet hunters pt .wpd

Enclosure II

Stage 4 Data Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Hunters point IR Site 9 and 10

LDC Report Date: September 26, 2017

Parameters: Perfluorinated Alkyl Acids

Validation Level: Stage 4

Laboratory: Vista Analytical Laboratory

Sample Delivery Group (SDG): 1700980

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
IR09P040A-080217	1700980-03	Water	08/02/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Sampling and Analysis Plan for Per- and Polyfluoroalkyl Substances (PFAS) at IR Site 9 and IR Site 10, Hunters Point Naval Shipyard, San Francisco, California (July 2017), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), and a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Perfluorinated Alkyl Acids by Environmental Protection Agency (EPA) Method 537 Modified

All sample results were subjected to Stage 4 data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

X (Do Not Report): A more appropriate result is reported from another analysis or dilution.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The initial calibration percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Standard	Compound	%D
08/11/17	ICAL-SCN945	PFHxA PFHpA PFNA	73.8 68.7 79.1

No data were qualified since these were the lowest points in the ICAL.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 25.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 25.0% for all compounds.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample 080217-ER-01 was identified as an equipment rinsate. No contaminants were found.

Sample 080217-FB-01 was identified as a field blank. No contaminants were found.

Sample 080217-SB-01 was identified as a source blank. No contaminants were found.

VII. Surrogates

Surrogates were not required by the method.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Ongoing Precision Recovery

Ongoing precision recovery (OPR) samples were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
IR09P040A-080217	$^{13}C_2$-PFDoA $^{13}C_2$-PFTeDA	47.6 (50-150) 48.9 (50-150)	PFDoA PFTeDA	UJ (all non-detects) UJ (all non-detects)	A

XII. Compound Quantitation

All compound quantitations met validation criteria.

All compounds reported below the LOQ were qualified as follows:

Sample	Finding	Flag	A or P
IR09P040A-080217	All compounds reported below the LOQ.	J (all detects)	A

XIII. Target Compound Identifications

All target compound identifications met validation criteria.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to internal standards %R and results below the LOQ, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Hunters point IR Site 9 and 10
Perfluorinated Alkyl Acids - Data Qualification Summary - SDG 1700980

Sample	Compound	Flag	A or P	Reason
IR09P040A-080217	PFDoA PFTeDA	UJ (all non-detects) UJ (all non-detects)	A	Internal standards (%R)
IR09P040A-080217	All compounds reported below the LOQ.	J (all detects)	A	Compound quantitation

Hunters point IR Site 9 and 10
Perfluorinated Alkyl Acids - Laboratory Blank Data Qualification Summary - SDG 1700980

No Sample Data Qualified in this SDG

Hunters point IR Site 9 and 10
Perfluorinated Alkyl Acids - Field Blank Data Qualification Summary - SDG 1700980

No Sample Data Qualified in this SDG

LDC #: 39413A96 **VALIDATION COMPLETENESS WORKSHEET** Date: 09/22/17
SDG #: 1700980 ADR Stage 2B/4 Page: 1 of 1
Laboratory: Vista Analytical Laboratory Reviewer: JK
2nd Reviewer: KR

METHOD: LC/MS Perfluorinated Alkyl Acids (EPA Method 537 Modified)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW/ A	ICAL = r² ICV ≤ 25%
IV.	Continuing calibration	A	CCV ≤ 25%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	FB= 5 ER = 9 SB = 10
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	0 PR
X.	Field duplicates	N	
XI.	Internal standards	SW	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Stage 2B validation
XIII.	Target compound identification	A	Not reviewed for Stage 2B validation
XIV.	System performance	A	Not reviewed for Stage 2B validation
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	~~IR09MW61A-080217~~	~~1700980-01~~	~~Water~~	~~08/02/17~~
2	~~IR09MW62A-080217~~	~~1700980-02~~	~~Water~~	~~08/02/17~~
3	IR09P040A-080217**	1700980-03**	Water	08/02/17
4	~~IR10MW28A-080217~~	~~1700980-04~~	~~Water~~	~~08/02/17~~
5	080217-FB-01	1700980-05	Water	08/02/17
6	IR10MW13A1-080217	1700980-06	Water	08/02/17
7	IR10MW31A1-080217	1700980-07	Water	08/02/17
8	IR10MW31A1-080217-D	1700980-08	Water	08/02/17
9	080217-ER-01	1700980-09	Water	08/02/17
10	080217-SB-01	1700980-10	Water	08/02/17
11	IR09MW62A-080217MS	1700980-02MS	Water	08/02/17
12	~~IR09MW62A-080217MSD~~	~~1700980-02MSD~~	~~Water~~	~~08/02/17~~
13				
14	B7H0035-Blk 1			

LDC #: 39413 A96

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer: KK

Method: LC/MS PFCs (EPA Method 537)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤25%?	✓		✓	
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
III. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 25%	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 25%	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?			✓	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			

LDC #: 39413 A96

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer: KS

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XI. Internal standards				
Were internal standard area counts within acceptance limits?	✓			
XII. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: PFOS/PFOAs

A. PFHxA			
B. PFHpA			
C. PFOA			
D. PFNA			
E. PFDA			
F. PFUnA			
G. PFDoA			
H. PFTriA			
I. PFTeDA			
J. PFBS			
K. PFHxS			
L. PFHpS			
M. PFOS			
N. PFDS			
O. FOSA			
P. PFBA			
Q. PFPeA			
R. 6:2FTS			
S. 8:2FTS			
T. MeFOSAA			
U. EtFOSAA			
V. Combined PFOAS/PFOS			

LDC #: 39413A96

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Reviewer: JVG
2nd Reviewer: VAV

METHOD: LCMS PFAs (EPA Method 537M)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990? ✓
Y N N/A Were all percent relative standard deviations (%RSD) ≤ 20% and %D ≤ 30% for each calibration standard?

#	Date	Standard ID	Compound	Finding (%D≤30%)	Finding (%RSD≤20%)	Finding RRF(≥0.99)	Associated Samples	Qualifications
	08/11/17	ICAL-SCN945	A	73.8				Text
			B	68.7				(NQ, lowest
			D	79.1				points in
								the ICAL)

LDC #: 39413 A96

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: JVG
2nd Reviewer: VV

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all internal standard area counts within -50 to +150% of the associated calibration standard?

(Y) N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	%R	Limits (%)	RT (Limits)	Qualifications
		3	$13C_2$-PFDoA	47.6	50 - 150	G	J/UJ/A
			$13C_2$-PFTeDA	48.9	✓	I	

(13C3-PFBS) = 13C3-Perfluorobutanesulfonic acid
(13C2-PFHxA) = 13C2-Perfluorohexanoic acid
(13C4-PFHpA) = 13C4-Perfluoroheptanoic acid
(18O2-PFHxS) = 18O2-Perfluorohexanesulfonic acid
(13C2-PFOA) = 13C4-Perfluorooctane acid
(13C8-PFOS) = 13C8-Perfluorooctanesulfonic acid
(13C5-PFNA) = 13C5-Perfluorononanoic acid
(13C2-PFDA) = 13C2-Perfluorodecanoic acid
(13C2-PFUnA) = 13C2-Perfluoroundecanoic acid
(13C2-PFDoA) = 13C2-Perfluorododecanoic acid
(13C2-PFTeDA) = 13C4-Perfluorotetradecanoic acid
(D3-MeFOSAA) = Methyl perfluorooctanesulfonamidoacetic acid
(D5-EtFOSAA) = Ethyl perfluorooctanesulfonamidoacetic acid

LDC#: 39413A96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: LC/MS PFCs (EPA Method 537Mod)

Calibration Date	System	Compound	Standard	(Y) Area ratio	(X) Conc ratio
8/10/2017	SCN945	PFOA	1	0.02746	0.020
			2	0.04862	0.040
			3	0.09034	0.080
		13C2-PFOA	4	0.18519	0.160
			5	0.43324	0.400
			6	0.83605	0.800
			7	4.15693	4.000
			8	8.11835	8.000
			9	19.05680	20.000
			10	34.87889	40.000

Regression Output	Calculated	Reported WLR
Constant	0.293969	0.151461
Std Err of Y Est		
R Squared	0.997924	0.999304
Degrees of Freedom		
X Coefficient(s)	0.88288691	0.980416
Std Err of Coef.		
Correlation Coefficient	0.998961	
Coefficient of Determination (r^2)	0.997924	0.999304

081017 pfos scn945 L

LDC # 39413A96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JVG
2nd Reviewer: VN

METHOD: LC/MS PFCs (EPA Method 537Mod)

Calibration Date	Instrument	Compound	Standard	(Y) Response ratio	(X) Conc. Ratio	(X^2) Conc. Ratio
8/10/2017	SCN945	PFOS	1	0.0191	0.02	0.00040
			2	0.0364	0.04	0.0016
		13C8-PFOS	3	0.0786	0.08	0.0064
			4	0.1729	0.16	0.0256
			5	0.4042	0.40	0.1600
			6	0.7881	0.80	0.6400
			7	4.3439	4.00	16.0000
			8	8.2082	8.00	64.0000
			9	20.2911	20.00	400.0000
			10	37.6543	40.00	1600.0000

Regression Output	Calculated		*Reported WQR*	
Constant	*c*	*-0.02231*	*c*	*-0.0396957*
Std Err of Y Est				
R Squared		*0.9999679*		*0.9997910*
Degrees of Freedom				
	m1	*m2*	*m1*	*m2*
X Coefficient(s)	*1.0773987*	*-0.0033898*	*1.0692200*	*-0.000252174*
Std Err of Coef.				
Correlation Coefficient		*0.999984*		
Coefficient of Determination (r^2)		*0.999968*		

LDC # 39413A96

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: LC/MS PFCs (EPA Method 537Mod)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = (Ax)(Cis)/(Ais)(Cx)

Where:
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound

Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound	(IS)	Conc	Reported	Recalculated	Reported % R	Recalculated % R
1	170815M1_24	8/15/2017	PFOA	(13C2-PFOA)	10.00	10.34	10.34	103.35	103.35
			PFOS	(13C8-PFOS)	10.00	9.42	9.42	94.15	94.15
2	170815M1_42	8/15/2017	PFOA	(13C2-PFOA)	10.00	10.31	10.31	103.09	103.09
			PFOS	(13C8-PFOS)	10.00	10.04	10.04	100.41	100.41

LDC #: 39413A96

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: LC/MS/MS PFCs (EPA Method 537Mod)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration, SA = Spike added, SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 11/12

Compound	Spike Added (ng/L)		Sample Conc (ng/L)	Spiked Sample Concentration (ng/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalc
PFOA	86.9	84.7	0	102.3	91.5	118	118	108	108	8.85	8.85
PFOS	↓	↓	11.7	98.9	98.9	100	100	103	103	2.96	2.96

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

RPD based on %R.

LDC #: 39413 A 96

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/ Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: KW

METHOD: LC/MS/MS PFCs (EPA Method 537Mod)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: B7H0035-BS1

Compound	Spike Added (ng/L)		Spike Concentration (ng/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PFOA	80.0	NA	82.9	NA	104	104				
PFOS	↓	↓	82.0	↓	107	107				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39413A96

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JVG
2nd reviewer: KR

METHOD: LC/MS/MS PFCs (EPA Method 537Mod)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 3, PFOS:

$y = m2x^2 + m1x + c$

~~Conc.~~ $\left[\frac{(1.17e3)(12.5)}{(8.43e3)}\right] = -0.000252174x^2 + 1.06422x - 0.039696$

$X = 1.653$

final conc. = $\frac{(1.653)}{(0.117)}$

= 14.13 ng/L

#	Sample ID	Compound	Reported Concentration (ng/L)	Calculated Concentration ( )	Qualification
			14.2		